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"^{BETTER} Flower Seeds for Florists"

SUMMER 1952

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U.S. Department of Agriculture



SINGLE STEMMED SNAPS at West Chicago

Try single stemmed growing for increased returns per square foot from your Snap crop. Advantages: faster crop rotations, greater uniformity, more production. See page 3 for the full story. Geo. K., Carl and Vic Ball examining Snowman.

Geo. J. Ball
INC.

WEST CHICAGO

ILLINOIS

To Our Florist Customers:

Snapdragons are profitable! The very intensive breeding work being done by us and others in the F1 Hybrid field is giving you earliness combined with vigor, long spikes, uniformity and excellent market colors that weren't even dreamed of in Snaps 10 years ago. Single stemmed culture combines ideally with our new Hybrids to give you a top quality crop of Snaps in the shortest possible bench time. You will find brief notes on single stemmed growing on page 3 of this catalog and more details in our monthly GROWER TALKS and our new BALL RED BOOK.

I think you'll like, as I do, our new, enlarged presentation of Pansies on pages 12, 13 and 14. Ruffled Rainbow is our most noteworthy 1952 Pansy introduction. Felix will be widely promoted in garden magazines to your Pansy customers next spring and will highlight the new wave of enthusiasm by home gardeners for Pansies. Pansy plants, especially Felix, will be valuable property next spring.

George K. Ball

President

ABOUT HYBRIDS

A few "hybrid" varieties are listed in this catalog that are essentially field-grown mixtures where pollination is done by bees or insects. Examples are some Hybrid Delphiniums, Pyrethrum Robinson's Hybrids, and Aquilegia Scott Elliott's Hybrids.

Such mixtures should not be confused with true F₁ Hybrids from pure line-bred parents, such as all the Snaps designated as HYBRID in this catalog. All other genuine Hybrids are designated as F₁ Hybrids.

CATALOG No. 65—SUMMER 1952—BUSINESS TERMS

DISCOUNTS ON SEED ORDERS (Except Lawn Grass). **Cash or C.O.D.**
Discount! When cash is enclosed, or on C.O.D.'s; under \$5.00 net; \$5.00

On Charge Seed Orders! If paid within 10 days from date of invoice: under \$5.00, net; \$5.00 to \$50.00, 2%; \$50.00 to \$100.00, 5%; \$100.00 and over, 8%. Bulbs 2% 10 days.

NO CASH DISCOUNT on Lawn Grass, Plants, Plant Band Material, and

other Supplies. These items **cannot** be sent C.O.D.
If this is your first order, it should be signed with some **individual's name**
in writing. Payment should accompany all orders unless credit has been
established. C.O.D. charges are 50% of the value.

All prices in this catalog subject to change without notice.

All prices in this catalog subject to change without notice.

All Seed Orders sent prepaid in U. S. and Canada at catalog prices.

IMPORTANT. Make all checks or money orders payable to **Geo. J. Ball, Inc., WEST Chicago, Illinois.** Not responsible for currency sent in the mail.

Business Hours (holidays excepted) are 8 to 12 and 1 to 5 Monday through Friday; 9 to 12 Saturday. Our phone number is West Chicago 299.

OUR BUSINESS IS WITH FLORISTS ONLY. WE DO NOT SELL AT RETAIL.

Shortages. All items are offered subject to crop failures or shortages

LIMITATION OF WARRANTY. Geo. J. Ball, Inc., warrants to the

tent of the purchase price that seeds, plants, or bulbs sold are as described on the container within recognized tolerances. Seller gives no other or further warranty, express or implied.

GENERAL INDEX

Page	Page	Page	Page	Page	Page	Page	Page
Achillea 18	Boltonia 19	Dicentra 19	Heuchera 21	Myosotis 22	Salvia 22		Page
Aconitum 18	Broom 19	Dictamnus 19	Hibiscus 21	Nepeta 22	Saponaria 22		
Alstroemeria 18	BULBS 24	Digitalis 19	Hollyhock 21	SNAPDRAGONS	Scabiosa 23		
Alyssum 18		Doronicum 19	Iberis 21	1, 2, 3, 4, 5			
Anchusa 18	CALCEOLARIA 8	Echinops 19	Incarvillea 21	Statice 23			
Anemone 18	CALENDULA 7	Edelweiss, see	Iris 21	STOCKS 15, 16			
Anthemis 18	Campanula 19	Carnation 19	LARKSPUR 10	Stokesia 23			
AQUILEGIA 18	Catananche 19	Leontopodium 21	Lathyrus 21	SWEET PEAS, 16, 17			
Arabis 18	Centaurea 19	Euphorbia 19	Lavandula 21	Physalis 22			
Armeria 18	Cerastium 19	Feverfew 21	Leontopodium 21	Physostegia 22			
Artemisia 18	Cheiranthus 19	Gaillardia 21	Liatris 21	PLANTS Cover 3			
Asclepias 18	Chrysanthemum 19	Geum 21	Lilies 21	Thalictrum 23			
Asparagus 18	CINERARIA 8	Gilia 21	Linum 21	Thermopsis 23			
Aster 18	Clematis 19	Gypsophila 21	Lobelia 21	Tritoma 23			
Aubrieta 18	Coreopsis 19	Grass, Lawn 11	Lunaria 21	Trollius 23			
AZALEAS Cover 4	CYCLAMEN 9		Lupine 21	Annual 14			
Baptisia 18	Daisy 19	Helianthemum 21	Perennial 22	Veronica 23			
BEGONIA 6	DELPHINIUM 20	Helleborus 21	Pyrethrum 22	VIOLA 23			
Bellis 19	Dianthus 19	Matricaria, see	ROSES Cover 3	Vibra-Seeder 11			
Bocconia 19	Hesperis 21	Feverfew 21	Rudbeckia 22	Yucca 23			

Ball Hybrid Snaps

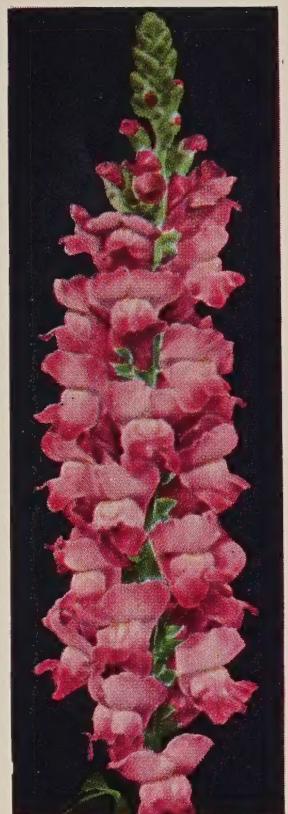
1952 INTRODUCTIONS

The following four Snaps represent the latest additions to our steadily growing family of Forcing Hybrids. Each one has been tried out under a wide variety of growing conditions, both in our own greenhouses and those of many prominent Snap growers throughout the country. Only when the majority of reports are favorable is a variety ready for general release. These four have been chosen from several dozen. Better try them.



HERCULES

Light pink, extra hard, long stem. Spike formation somewhat like that of Peggy Schumann. Close-set florets, graceful long spike, and very clean grower. Mid-season.



LAVENDER LADY

A deep, rosy lavender shade with excellent spikes and stems. This is unquestionably the finest lavender Snap we've ever seen. For late winter and spring.



• **Hercules** (Ball Hyb. No. 21—New, formerly Exp. Hyb. No. 78X). Pictured at left. Excellent long-stemmed, light pink.

• **Lavender Lady** (Ball Hyb. No. 71—New, formerly Exp. Hyb. No. 95X). Pictured at left. We predict this variety will put lavender Snaps "back in business." See description under cut.

• **Pink Ice** (Ball Hyb. No. 31—New, formerly Exp. Hyb. No. 77X). Bright medium rose—extra large florets.

• **Rosy Dawn** (Ball Hyb. No. 41—New, formerly Exp. Hyb. No. 34X). Deep rose. Many favorable reports received from trial growers of this variety last season. For late winter and spring.

PRICES above 4 varieties, each: $\frac{1}{2}$ tr. pkt., \$2.00; tr. pkt., \$3.50.

PINK ICE

A bright, medium rose with nearly white lips. A clean, strong grower with outstanding flower spikes. Do not flower before February in the North.

SEE NEXT PAGE FOR A COMPLETE LIST OF BALL HYBRID SNAPS

YODER BROS. HYBRIDS

We are using the originator's descriptions. Significant observations from our West Chicago '52 flowering trial notes are added in parentheses.

LIGHT PINK

Whirlaway. Medium early; large floret; close spacing; long spikes. (Light pink, yellow lip, good spike.)

ROSE

Star Charter. Vigorous, uniform growth; close spacing of florets. An excellent keeper. (Rose—rather short spike.)

Crusader. Color and season that of Dorcas Jane. (Good rose; extra long spike.)

Pensive. Dark pink. Flowers just after Christmas Cheer. Stronger, cleaner growth than that variety.

YELLOW

Day Star. Very early; good uniformity; long spike. (Light yellow; prefer War Admiral.)

War Admiral. Outstanding in vigor, uniformity and spike formation. (Very good yellow; excellent spike.)

WHITE

Twenty Grand. A medium early winter flowering ivory similar to that of Junglewood White. A fine keeper. (Long spike.)

Apollo. Larger flowered and more vigorous than Margaret, otherwise very similar to that variety. (Ivory. Fair—prefer Twenty Grand.)

Jet Pilot. A medium early paper white; long spikes. Similar to White Wonder in form, much greater vigor. (Pure white, fast grower; florets rather widely spaced.)

BRONZE

Cavalcade. A lively golden bronze; extremely vigorous; long spikes; outstanding keeper. (Light bronze; fine spike.)

Gallant Fox. Deep orange-bronze; similar in color to Lady Dorothy but much stronger and more vigorous. Compact floret placement; a little earlier than Barbara. (Good bronze; fine spike.)

Price above Yoder Bros. Hybrids, each: Tr. pkt., \$3.00. No $\frac{1}{2}$ tr. pkts. available.



Rosanna



Navajo ➔

Ball Hybrid Snapdragons

Grouped here are the popular Ball Hybrid Snaps that have largely replaced many of the old inbred varieties within the past few years. Their better stems and spikes plus their faster growth rate have won the acclaim of Snap growers most everywhere. If you've been dissatisfied with your old favorites, we suggest you try the Hybrids. Golden Spike, Snowman, Navajo, and Rosanna are particularly recommended.

- **Hercules** (Ball Hyb. No. 21—New, formerly Exp. Hyb. No. 78X). Light pink, extra hard stem. Spike formation somewhat like that of Peggy Schumann. Close-set florets, graceful spike, and very clean grower. Midseason. See page 1.
- **Lavender Lady** (Ball Hyb. No. 71—New, formerly Exp. Hyb. No. 95X). A deep, rosy lavender shade with excellent spikes and stems. This is unquestionably the finest lavender Snap we've ever seen. For late winter and spring. See page 1.
- **Pink Ice** (Ball Hyb. No. 31—New, formerly Exp. Hyb. No. 77X). A bright, medium rose with nearly white lips. A clean, strong grower with outstanding flower spikes. Do not flower before February in the North. See page 1.
- **Rosy Dawn** (Ball Hyb. No. 41—New, formerly Exp. Hyb. No. 34X). Solid, heavy spikes of deep rose; good stems. Near Christmas Cheer in color, but 3 or 4 weeks later. Midseason. Do not flower before February in the North. See page 1.
- **Golden Spike** (Ball Hyb. No. 1). A rich, deep golden yellow with long, tapering spikes and heavy stems. Exceptionally heavy producer. Best yellow for late winter and spring but should not be flowered before February in the North.
- **Ball Pink Hyb. No. 2.** Medium pink. While some like it for its earliness and heavy production, we prefer Hercules and Christina.
- **Pink Cloud** (Ball Hyb. No. 3). A medium pink. Offers an amazing combination of fast growth and early blooming with long stems, spikes, and really large flowers. Our customers' first year reports are conflicting. Some growers liked it very well, while others noted soft stems in midwinter.

● **Pink Monarch** (Ball Hyb. No. 4). A rose-pink with large, attractive, close-set florets and an exceptionally hard stem. Midseason.

● **Snowman** (Ball Hyb. No. 5). Our customers' first year's experience with Snowman has been gratifying. This pure white is a top-notch Snap in all ways. We consider it the best white for single stemmed culture, and it is also excellent for a pinched crop. Sales have been far heavier on Snowman than on any other 1951 introduction. Absolutely white—no trace of ivory. Good producer, hard clean stem, graceful spike.

● **Indian Chief** (Ball Hyb. No. 6). Bright, rich bronze; attractive spike and good placement of florets. For late winter and spring. Deeper, brighter shade than Barbara.

● **Ball Red Hyb. No. 7.** Velvet Supreme color. Excellent for earliness and free production, but we prefer Navajo for all-purpose red.

● **Navajo** (Ball Hyb. No. 8). Pictured above. We consider this the finest all-purpose red Snap available. It combines an excellent bright, true Snapdragon red (no blue or purple tones) with an extra long spike and hard stem. Blooms with Margaret. No weak points reported the first year.

● **Rosanna** (Ball Hyb. No. 9). Pictured above. A deep, bright rose; long tapering spike. Some growers have reported this variety soft in midwinter; however, our experience together with that of most growers who have reported has been favorable thruout the growing season.

● **Hybrid Formula Mixed.** Mixture of Hybrid Snaps. $\frac{1}{2}$ tr. pkt., \$1.75; tr. pkt., \$3.00.

PRICES all above Ball Hybrids except Mixture:
1/2 tr. pkt., **\$2.00**; tr. pkt., **\$3.50**.

BALL HYBRID SNAP COLLECTION

2 tr. pkts. each **Golden Spike**, **Snowman**, and **Hercules**.
1 tr. pkt. each **Pink Ice**, **Navajo**, **Rosanna**, and **Lavender Lady**.
Collection of 10 tr. pkts., \$32.00



Snowman
Golden Spike ➔



"15 Best" Snap Varieties

(80% of Our Snap Seed Sales are From This List)

This list of recommended varieties is made up of the 15 best according to our flowering trials and growers' reports. No unproven varieties are included in these recommendations.

LIGHT PINK

	Tr. Pkt.
● Hercules (Ball Hyb. No. 21—New, formerly Exp. Hyb. No. 78X). Light pink, extra hard stem. See page 1. $\frac{1}{2}$ tr. pkt., \$2.00	\$3.50
● Christina . HYBRID (J. S. Yoder). Midseason. Best all-purpose light pink on our list. $\frac{1}{2}$ tr. pkt., \$1.75	3.00

MEDIUM PINK

	Tr. Pkt.
● Dorcas Jane . HYBRID (Burkey). Midseason. Good stems and long spikes of silvery rose-pink. $\frac{1}{2}$ tr. pkt., \$1.50	2.50
● Pink Ice (Ball Hyb. No. 31—New, formerly Exp. Hyb. No. 77X). A bright, medium rose with nearly white lips. A clean, strong grower with outstanding flower spikes. Do not flower before February in the North. See page 1. $\frac{1}{2}$ tr. pkt., \$2.00	3.50
● Christina . HYBRID (J. S. Yoder). Midseason. Best all-purpose light pink on our list. $\frac{1}{2}$ tr. pkt., \$1.75	3.00

ROSE

	Tr. Pkt.
● Rosanna (Ball Hyb. No. 9). Our best all-purpose deep rose for winter or spring. $\frac{1}{2}$ tr. pkt., \$2.00	3.50
● Christmas Cheer . HYBRID (Windmiller). Early and productive, bright rose-pink. $\frac{1}{2}$ tr. pkt., \$1.75	3.00
● Peggy Schumann . Late. Beautiful creamy rose-pink	2.00

YELLOW

	Tr. Pkt.
● Golden Spike (Ball Hyb. No. 1). Midseason. A rich, deep golden yellow with long, tapering spikes and heavy stems. Best yellow for late winter and spring. $\frac{1}{2}$ tr. pkt., \$2.00	3.50
● Patricia . HYBRID (J. S. Yoder). Midseason. Medium yellow. Excellent for midwinter yellow. Habit similar to Margaret. $\frac{1}{2}$ tr. pkt., \$1.75	3.00

SINGLE STEMMED SNAPS

More growers each year are turning to it. Reasons:

1. Saves time—from same sowing date no-pinch crop starts to cut 3 weeks sooner than pinched crop. Beds can be cleared off up to 6 weeks earlier. Time saved can be used for more efficient rotation, bedding plants, etc.

2. Production as good or better than pinched Snaps, depending on spacing.

3. Uniformity. You eliminate many of the culs that come with a pinched crop.

Culture

1. Spacing—3 x 6 inches (18 square inches) for crops to flower December-January. We go to 3 x 5 inches (15 square inches) for March thru June. Some growers space 3 x 4 (12 square inches) for May. Wider spacing than 3 x 6 gives extra quality, but less production.

2. **Stagger your sowings!** Successive crops that bloom 3-4 weeks apart will give steadier cut than a pinched crop. Our '52 schedule: (All dates refer to northern Illinois latitude.)

Sow Seed	Bench Seedlings	Start to Cut (50°, raised benches)
Aug. 18	Sept. 7	Jan. 1
Aug. 25	Sept. 14	Jan. 20
Sept. 8	Oct. 2	Feb. 10
Sept. 24	Oct. 16	Mar. 8
Oct. 3	Oct. 30	April 3
Oct. 15	Nov. 15	April 17
Dec. 1	Jan. 18	May 8
Feb. 20	(Band March 12, Bench April 20, Sash house or cloth protection from frost.)	June 15

	Tr. Pkt.
● Snowman (Ball Hyb. No. 5). Midseason. This pure white is a top-notch Snap in all ways. We consider it the best white for single stemmed culture, and it is also excellent for pinched crop. Good producer, hard, clean stem, graceful spike. $\frac{1}{2}$ tr. pkt., \$2.00	\$3.50
● Margaret . Midseason. Clean ivory-white; very productive. The most popular variety on our entire list.	2.00
	WHITE
● Indian Chief (Ball Hyb. No. 6). Bright, rich bronze; attractive spike and good placement of florets. For late winter and spring. Deeper, brighter shade than Barbara. $\frac{1}{2}$ tr. pkt., \$2.00	3.50
● Barbara . HYBRID (J. S. Yoder). Large flowered bronze with pink throat. $\frac{1}{2}$ tr. pkt., \$1.75	3.00
	BRONZE
● Navajo (Ball Hyb. No. 8). We consider this the finest all-purpose red Snap available. It combines an excellent bright, true Snapdragons-red (no blue or purple tones) with an extra long spike and hard stem. Blooms a little ahead of Margaret. No weak points reported the first year. $\frac{1}{2}$ tr. pkt., \$2.00	3.50
	RED
● Lavender Lady (Ball Hyb. No. 71—formerly Exp. Hyb. No. 95X). A deep, rosy lavender shade with excellent spikes and stems. This is unquestionably the finest lavender Snap we've ever seen. For late winter and spring. See page 1. $\frac{1}{2}$ tr. pkt., \$2.00	3.50
	LAVENDER

See Next Page for Complete List →



George K., Carl and Vic Ball examining a mid-February cut of Snowman grown single stemmed. Sown September 8, seedlings benched October 2, spaced 3x6 inches, on raised benches, 50° nights.

3. Hardly pays to band or pot for single stemmed crop—we bench directly except for June (sash house) crop. Good market, low overhead—worth the cost on that crop.

4. Best ones for single stemmed culture (our experience): **White**, Snowman; **Yellow**, Golden Spike (Patricia for January 15 to February 15 in very cloudy areas); **Pink**, Christina, Pink Ice, Hercules; **Rose**, Rosanna; **Bronze**, Barbara; **Red**, Navajo; **Lavender**, Lavender Lady.

More Cultural Notes on Page 5.

FORCING SNAPDRAGONS

Complete List

ABOUT FLOWERING DATES. In describing the many Snap varieties which we list, we have designated each as early (E), midseason (M) or late (L). This is an arbitrary classification based on our own West Chicago greenhouse trials over a period of years.

From a sowing made August 1, grown on a raised bench as a pinched crop and run 50° nights, those varieties which normally flower by December 15 we classify as early. Those which flower

between December 15 and January 10 we call midseason; while the remainder that flower after January 10 we consider late. Locality and amount of sunshine, of course, have a bearing on flowering dates, too.

It should be borne in mind that while many of the early and midseason varieties are excellent for late flowering if sown later, late varieties cannot be flowered early unless sown in May or June in our locality.

WHITE

Tr. Pkt.

● Snowman (Ball Hyb. No. 5). M. This pure white is a top-notch Snap in all ways. We consider it the best white for single stemmed culture, and it is also excellent for a pinched crop. Good producer, hard, clean stem, graceful spike. See page 2. $\frac{1}{2}$ tr. pkt., \$2.00	\$3.50
Apollo . HYBRID (New. Yoder Bros.). Ivory. Larger flowered and more vigorous than Margaret. See page 1.....	3.00
Jet Pilot . HYBRID (New. Yoder Bros.) See page 1.....	3.00
Junglewood White . L. Extra long stemmed, pure white. Rather late flowering with us. $\frac{1}{2}$ tr. pkt., \$1.25	2.00
Koester's White . E. Extra early, pure white with medium length stems. We prefer Snowman.....	1.50
Lucky Strike Imp. M. Long stemmed ivory-white. We consider Margaret much superior.....	1.50
● Margaret . M. Clean ivory-white; very productive. The most popular variety on our entire list.....	2.00
Marion . L. Popular spring flowering white.....	1.50
Maryland White . HYBRID (Winkler). M. Pure white. $\frac{1}{2}$ tr. pkt., \$2.00	3.50
Peace . E. Pure white.....	1.50
Rockwood's Crystal White . L. Pure white. Recommended for late spring and early summer only. $\frac{1}{2}$ tr. pkt., \$1.75..	3.00
Rockwood's Hybrid White (No. 5) (New). $\frac{1}{2}$ tr. pkt., \$1.75	3.00
Schlegel's White . E. Vigorous white.....	1.50
Snowdrift . L. Double flowering white. $\frac{1}{2}$ tr. pkt., \$1.75..	3.00
Snow White . L. Fine white; many flowers duplexed.....	1.50
Tommy Armstrong . L. Pure white. Stems are clean and hard with closely spaced florets. $\frac{1}{2}$ tr. pkt., \$1.75	3.00
Twenty Grand . HYBRID (New. Yoder Bros.). Ivory; flower similar to Junglewood White. See page 1.....	3.00
Westover's Fringed White . L.	1.50
White Wonder Imp. M. This is our own strain.....	1.50

ROSE

● Rosanna (Ball Hyb. No. 9). M. A deep, bright rose; long tapering spikes. See page 2. $\frac{1}{2}$ tr. pkt., \$2.00....	3.50
Rosy Dawn (Ball Hyb. No. 41. New, formerly Exp. Hyb. No 34X). Solid, heavy spikes of deep rose; good stems. See page 1. $\frac{1}{2}$ tr. pkt., \$2.00.....	3.50
America . M. Very attractive rose and orange bi-color....	1.50
Better Times . HYBRID (Windmiller). M. Bright cerise-rose. $\frac{1}{2}$ tr. pkt., \$1.25.....	2.00
Charm . E. Extra large deep rose. Heavy spikes.....	2.50
Cheviot Maid Reselected . M. Popular rose-pink.....	1.50
● Christmas Cheer . HYBRID (Windmiller). E. Extra early, productive, bright rose-pink. $\frac{1}{2}$ tr. pkt., \$1.75.....	3.00
Crusader . HYBRID (New—Yoder Bros.). See page 1.....	3.00
Delworth's Supreme . M. Long, strong stems.....	1.50
Gilbert's Pink Supreme Queen . M. Deep rose-pink.....	2.00

Libby. HYBRID (New—J. S. Yoder.) Dark rose-pink, strong stem and vigorous. M. $\frac{1}{2}$ tr. pkt., \$1.75; tr. pkt., \$3.00.

Maxine . HYBRID (Smith). E. Winter flowering rose-pink. $\frac{1}{2}$ tr. pkt., \$1.75.....	3.00
● Peggy Schumann . L. Beautiful creamy rose-pink.....	2.00
Pensive . HYBRID (New—Yoder Bros.). See page 1.....	3.00
Rockwood Pink Supreme . L. Fairly deep, bright rose-pink. $\frac{1}{2}$ tr. pkt., \$1.75.....	2.00
Rose Queen . M. Deep rose; an old time favorite.....	1.50
Star Charter . HYBRID (New. Yoder Bros.). See page 1 ..	3.00
Tetraploid Rose . L. Extra large, deep cerise-rose.....	1.50

LIGHT PINK

Tr. Pkt.

● Hercules (Ball Hyb. No. 21. New, formerly Exp. Hyb. No. 78X). M. Light pink, extra hard, clean stem. Close-set florets, graceful spikes. See page 1. $\frac{1}{2}$ tr. pkt., \$2.00	\$3.50
● Christina . HYBRID (J. S. Yoder). M. Best all-purpose light pink on our list. $\frac{1}{2}$ tr. pkt., \$1.75	3.00
Daybreak . M. Clear, light pink.....	1.50
Kathleen . HYBRID (New, Hoffman). Light pink. $\frac{1}{2}$ tr. pkt., \$1.75	3.00
Maiden's Blush Imp. M. Pale pink. $\frac{1}{2}$ tr. pkt., 85c.....	1.50
Marie Louise . M. A beautiful light shell-pink.....	2.00
Mary Ellen . HYBRID (J. S. Yoder). M. Light pink. $\frac{1}{2}$ tr. pkt., \$1.50	2.50
Maryland Pink . HYBRID (Winkler). E. Creamy light pink. Early and productive. $\frac{1}{2}$ tr. pkt., \$2.00	3.50
St. Louis Pink . L. Excellent light pink for spring.....	1.50
Whirlaway . HYBRID (New. Yoder Bros.). Medium early; a little deeper color than Mary Ellen. See page 1.....	3.00

MEDIUM PINK

Pink Cloud (Ball Hyb. No. 3). M. Medium pink. See page 2. $\frac{1}{2}$ tr. pkt., \$2.00.....	3.50
Pink Monarch (Ball Hyb. No. 4). L. Rose-pink. See page 2. $\frac{1}{2}$ tr. pkt., \$2.00.....	3.50
● Pink Ice (Ball Hyb. No. 31—new, formerly Exp. Hyb. No. 77X). E. Bright, medium rose with nearly white lips. See page 1. $\frac{1}{2}$ tr. pkt., \$2.00	3.50
Ball Pink Hyb. No. 2 . E. Medium pink. We prefer Hercules and Christina. See page 2. $\frac{1}{2}$ tr. pkt., \$2.00	3.50
Cheviot Maid No. 33 . M. Between rose and pink in color	1.50
● Dorcas Jane . HYBRID (Burkey). M. Long spikes of silvery rose-pink. $\frac{1}{2}$ tr. pkt., \$1.50.....	2.50
New Cincinnati . M. Medium rose-pink with shatter-proof spikes and extra long, stiff stems.....	1.50

YELLOW

● Golden Spike (Ball Hyb. No. 1). M. A rich, deep golden yellow with long, tapering spikes and heavy stems. Best yellow for late winter and spring, but should not be flowered before February in the North. $\frac{1}{2}$ tr. pkt., \$2.00 ..	3.50
Carol Jean . M. Light creamy yellow.....	2.00
Ceylon Court . L. Medium yellow for spring.....	1.50
Day Star . HYBRID (New. Yoder Bros.). Light yellow; prefer War Admiral. See page 1.....	3.00
Ethel . M. The most satisfactory self-pollinated yellow; extra clean and uniform.....	1.50
Goldrush . HYBRID (Winkler). M. Large flowered medium yellow; a good producer. $\frac{1}{2}$ tr. pkt., \$2.00	3.50
Junglewood Lemon . M. Light yellow. $\frac{1}{2}$ tr. pkt., \$1.25 ..	2.00
Junglewood Yellow . M. A clean growing, rich yellow. $\frac{1}{2}$ tr. pkt., \$1.25	2.00
Klondyke Supreme . L. Rich deep yellow. A vigorous growing, large flowered variety.....	1.50
● Patricia . HYBRID (J. S. Yoder). M. Medium yellow. Excellent for midwinter yellow. Habit similar to Margaret. $\frac{1}{2}$ tr. pkt., \$1.75	3.00
Rockwood's Hybrid Yellow (No. 10) (New). $\frac{1}{2}$ tr. pkt., \$1.75	3.00
Yellow Peggy Schumann . L.	2.00
Yellow Wonder Imp. Extra early.....	1.50
War Admiral . HYBRID (New. Yoder Bros.). Outstanding in vigor, uniformity and spike formation. See page 1.....	3.00

FORCING SNAPDRAGONS

Complete List, Continued

RED

	Tr. Pkt.
● Navajo (Ball Hyb. No. 8). M. We consider this the finest all-purpose red Snap available. See page 2. 1/2 tr. pkt., \$2.00	\$3.50
Ball Red Hyb. No. 7. E. Excellent for earliness and free production, but we prefer Navajo for all-purpose red. See page 2. 1/2 tr. pkt., \$2.00	3.50
Priscilla Ann. HYBRID (New. J. S. Yoder). M. A wine-red, similar to Shisler's Red in color. 1/2 tr. pkt., \$1.75	3.00
Red Lips. M. Bright wine-red with gold lip and white tube. An attractive bicolor novelty.	2.00
Rockwood's Red Hybrid (No. 15) (New). 1/2 tr. pkt., \$1.75	3.00
Shisler's Red. M. Attractive wine-red. True to color and a good, hard stemmed variety for spring	2.00

LAVENDER

● Lavender Lady (Ball Hyb. No. 71. New. Formerly Exp. Hyb. No. 95X). A deep, rosy lavender shade with excellent spikes and stems. For late winter and spring. 1/2 tr. pkt., \$2.00	3.50
Ball Lavender. L. Long-stemmed and strong growing with good spikes of bright, rosy lavender. Prefer Lavender Lady.	1.50
Schumann's Lavender. L. Popular spring variety	2.00
Windmiller's Lilac. M. Long-stemmed rosy lilac	2.00

NEW DOUBLE SNAP

Sunshine Rose-Pink (New—Yerxa). A new fully double Snapdragons. Large florets and long spikes. A bright, luminous pink. Bred for high light intensity areas of the West and South. Tr. pkt. (over 500 seeds)	\$5.00
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NOTES ON SNAP CULTURE

Great strides have been made within the past few years in the development of forcing Snapdragons. Most of the inbred varieties that were popular 10 years ago are no match at all for many of today's modern Hybrids. Increased production, greater vigor, harder and cleaner stems, plus better flower spikes—all play their part in making more money for Snap growers everywhere. If you haven't yet tried the newer varieties, by all means do so. We're as sure as we can be that the small additional cost for seed will come back to you several times over in dollars per bench.

Handling the Crop. Figure on around 3 weeks from seed sowing until seedlings are ready to handle in summer—about 5 weeks in winter. If benches are ready, seedlings may go directly into them; otherwise, into 2 or 2 1/2-inch bands or open beds spaced about 3x3 inches. Either way, they should be benched unpinched when 3 or 4 inches tall, spacing about 8x8 inches for a pinched crop. We pinch them at a height of 8 inches or so, leaving 4 sets of leaves. After the breaks have reached a length of around 1 1/2 inches, they should be pruned to the four best. Night temperatures of 50° (except 45° during December) are satisfactory. Some ventilation in winter is important except on the very coldest days. We keep enough nitrate and potash in our winter Snap beds so that tests will show low to medium levels. A regular insect control program is important. Possibilities are Parathion aerosols and Vapo-tone spray.

Sowing and Flowering Dates. The following table refers to the conventional pinched crop. The dates are approximate and are for raised benches. Allow 3 to 4 weeks longer for ground beds.

BRONZE

	Tr. Pkt.
● Indian Chief (Ball Hyb. No. 6). M. Scarlet-bronze. See page 2. 1/2 tr. pkt., \$2.00	\$3.50
Afterglow. M. Bright orange-bronze; still widely grown	1.50
● Barbara. HYBRID (J. S. Yoder). M. Large-flowered bronze with pink throat. 1/2 tr. pkt., \$1.75	3.00
Bronze Christmas Cheer. M. 1/2 tr. pkt., \$1.25	2.00
Cavalcade. HYBRID (New. Yoder Bros.). A lively golden bronze; extremely vigorous. See page 1	3.00
Gallant Fox. HYBRID (New. Yoder Bros.). Deep orange-bronze. See page 1	3.00
Glorious. M. Bright reddish bronze for spring	1.50
Ideal Improved. M. Blend of rose, orange and yellow	1.50
Jubilee. HYBRID (Winkler). M. Light golden bronze. Habit similar to Goldrush. 1/2 tr. pkt., \$2.00	3.50
Lady Dorothy. E. Bright orange-bronze. 1/2 tr. pkt., \$1.75	3.00
Miss Wooster. M. Spring flowering, golden orange	1.50
Rockwood's Smoky Bronze (New). 1/2 tr. pkt., \$1.75	3.00
Schlegel's Early Bronze. M. An improved Bronze Christmas Cheer, with better flowers and habit	2.00
Sunlite. E. Extra early, light bronze	1.50

MIXTURES

Hybrid Formula Mixed. Mixture of Hybrid Snaps. 1/2 tr. pkt., \$1.75	3.00
Ball Forcing Mixture. Carefully blended by formula	1.00
Standard Early Mixed. All varieties	.75

PLEASE NOTE

1/2 tr. pkts. available only where listed.

If the variety you want is not listed, send us your order and we will get it for you or suggest a satisfactory substitute.

Sow	To Flower	Sow	To Flower
July 15	December	September 1	Early March
August 10	Early January	October 1	Early April
August 20	Early February	Nov. 15	Mid-May

June Snaps. The past two years there has been a surprisingly steady demand for reasonably good Snaps during June. Considering the short time required to produce them and the low heating cost, this would seem a worth-while deal—both for retail and for market growers.

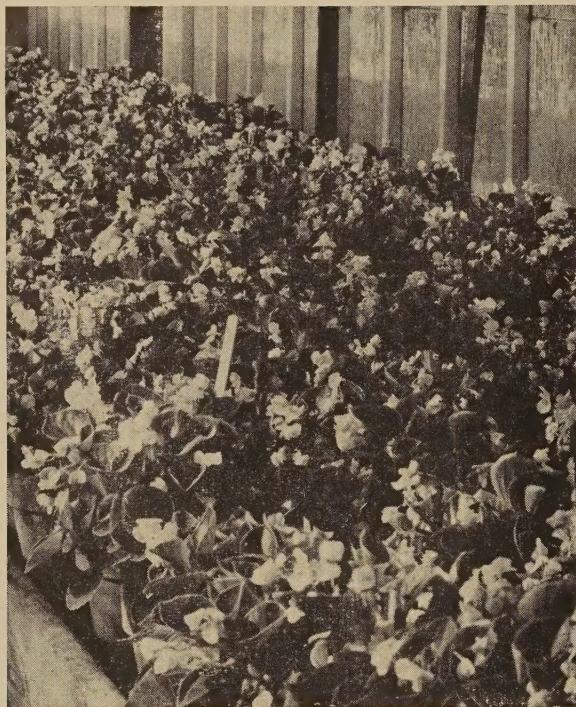
If you have a sash house, or even a good heated frame which you can work by mid-April, you can bench transplants April 20 single-stemmed, and cut the crop June 10 to 20. Some growers equipped for shaded cloth house Pomp growing use those beds. If the Sateen is put over the beds April 15, and a single steam line turned on for each 2 or 3 beds, the soil should thaw and dry out nicely. If, after the Snaps are benched, a late frost should come along, the same steam line and Sateen cover can be used to protect them. From a late April benching, the only temperature requirement for good Snaps is that they don't freeze.

Here is a schedule we have set up for our own June Snaps:

February 20—Sow seed. Use greenhouse Hybrids—Snowman, Christina, Golden Spike, Rosanna, Navajo, Barbara. Transplant seedlings to 1 1/4-inch veneer bands when ready to handle. Keep in 45° house.

April 20—Bench banded plants, spaced 4x4 inches; no pinch.

June 10—Start cutting; should clear in 10-15 days.



Nearly all the Begonia seed we sell is bred, grown, selected, harvested and cleaned in our own greenhouses—your assurance of the best.

EXTRA DWARF

- **Ball Dwarf Carmen.** Extra compact habit with rich bronze leaves and light pink flowers. Tr. pkt., \$1.50; $\frac{1}{64}$ oz., \$3.50.
- **Saga.** Extra dwarf and dense growth. Small, bright red flowers. Tr. pkt., \$1.50; $\frac{1}{64}$ oz., \$4.00; $\frac{1}{32}$ oz., \$7.50.

DWARF CLASS

- **Adeline.** Extra free flowering bright pink; dwarf and compact. Tr. pkt., \$1.50; $\frac{1}{64}$ oz., \$3.25; $\frac{1}{32}$ oz., \$6.00.
- **Ball Deep Rose.** In-winter the color is a deep rosy red which gradually fades to a luminous pink with the coming of warmer weather. Tr. pkt., \$1.50; $\frac{1}{64}$ oz., \$3.25; $\frac{1}{32}$ oz., \$6.00.
- **Ball Red.** Medium large flowers of bright true scarlet are freely produced on fairly dwarf, uniform plants. Tr. pkt., \$1.50; $\frac{1}{64}$ oz., \$3.25; $\frac{1}{32}$ oz., \$6.00.
- **Ball White.** Rather small flowers but very freely produced. Tr. pkt., \$1.50; $\frac{1}{64}$ oz., \$3.00; $\frac{1}{32}$ oz., \$5.50.
- **Luminosa Compacta.** Dwarf, free flowering scarlet-red. Tr. pkt., \$1.50; $\frac{1}{64}$ oz., \$3.00; $\frac{1}{32}$ oz., \$5.50.
- **Snowbank.** Large, glistening white flowers are carried on dense growing, even plants. The best white. Tr. pkt., \$1.25; $\frac{1}{64}$ oz., \$2.75; $\frac{1}{32}$ oz., \$5.00.
- **Dwarf Varieties Mixed.** Our own formula mixture of dwarf varieties. Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$2.50; $\frac{1}{32}$ oz., \$4.50.

HETEROSIS (HYBRID) STRAINS

- **Gruga.** Dwarf. Large flowers of Adeline-pink. Habit similar to Ball Red. Tr. pkt. only, \$1.50.
- **Tausendschon.** (New.) Dwarf. Bright pink; closely resembles Adeline and Pink Pearl in habit. Originator's seed. Tr. pkt., \$1.25.
- **Pink Pearl.** Resembles Adeline in flower size, rich pink color and uniformly dwarf, compact growth. Originator's tr. pkts. only, \$1.50.
- **Red Pearl.** Dwarf. Identical to Pink Pearl except for its Luminosa-red color. Originator's imported Hybrid seed. Tr. pkts. only, \$1.50.

Ball Begonias

FIBROUS ROOTED

(30,000 seeds per $\frac{1}{32}$ oz.)

Along with Double Petunias, we would classify Fibrous Rooted Begonias as being among the most versatile seed-grown pot plants that any grower could handle. They're equally valuable in 5-inch pots, as less expensive plants in 3- or 4-inch pots, or in plant combinations of all sorts. They're also unsurpassed as a bedding plant in partially shaded locations.

Nearly all our Begonia seed is bred, grown, selected, harvested and cleaned in our own greenhouses under the watchful care of men who have had years of experience with this plant.

Culture: We use clear humus for germination—no covering over the seed (a well shaded house in summer). Keep surface of flat moist. Use a light, porous mixture for potting; plenty of humus and some sand if soil is heavy. They need 55° to 60° night temperature for unchecked growth—and shade in summer. To have 3-inch in flower for Christmas, sow August 1; for spring holidays, figure about 16 weeks for 3-inch blooming plants; 20 weeks for 4-inch.

Varieties: Best of the Dwarf types are Adeline, Ball Deep Rose, Ball Red, Luminosa Compacta and Snowbank. Indian Maid and the Scandinavias are fine all-around Intermediates.

INTERMEDIATE

● **Sparkler** (New). The outstanding feature of this new Begonia is its unusual color—large flowers of brilliant orange-salmon with each petal base a contrasting creamy white. Sparkler was developed in our own greenhouses and is the only true salmon Begonia we have ever seen. Seed ready mid-August. Tr. pkt., \$2.50.

● **Carmen.** The original bronze-leaved Begonia; bright rose-pink flowers. Tr. pkt., \$1.25; $\frac{1}{64}$ oz., \$2.75; $\frac{1}{32}$ oz., \$5.00.

Fire Sea (Blaze of Fire). Large, fiery red with green foliage. Tr. pkt., \$1.25; $\frac{1}{64}$ oz., \$2.50; $\frac{1}{32}$ oz., \$4.50.

● **Indian Maid.** Foliage a deep lustrous bronze with scarlet flowers. Tr. pkt., \$1.25; $\frac{1}{64}$ oz., \$2.75; $\frac{1}{32}$ oz., \$5.00.

King of the Reds. Free flowering rose-red; vigorous growth. Tr. pkt., \$1.25; $\frac{1}{64}$ oz., \$2.50; $\frac{1}{32}$ oz., \$4.75.

● **Luminosa.** Very attractive and popular scarlet-red. Tr. pkt., \$1.25; $\frac{1}{64}$ oz., \$3.00; $\frac{1}{32}$ oz., \$5.50.

Prima Donna. Medium rose-pink. Prefer Scandinavia Pink. Tr. pkt., \$1.25; $\frac{1}{64}$ oz., \$2.00; $\frac{1}{32}$ oz., \$3.50.

Salmon Queen. Salmon shaded rose with dark foliage. Tr. pkt., \$1.25; $\frac{1}{64}$ oz., \$2.50; $\frac{1}{32}$ oz., \$4.50.

● **Scandinavia Pink.** Very free flowering bright rose-pink. Fine bushy habit. Tr. pkt., \$1.25; $\frac{1}{64}$ oz., \$2.75; $\frac{1}{32}$ oz., \$5.00.

● **Scandinavia Red.** Identical to the above except for its bright red flowers. Tr. pkt., \$1.25; $\frac{1}{64}$ oz., \$2.75; $\frac{1}{32}$ oz., \$5.00.

Scandinavia White. A white Scandinavia selection. Tr. pkt., \$1.25; $\frac{1}{64}$ oz., \$2.75; $\frac{1}{32}$ oz., \$5.00.

White Pearl. Medium sized white flowers with green leaves, tinged pink; reddish stems. Tr. pkt., \$1.25; $\frac{1}{64}$ oz., \$2.50.

Intermediate Varieties Mixed. Made up of the above separate colors. Tr. pkt., \$1.25; $\frac{1}{64}$ oz., \$2.25; $\frac{1}{32}$ oz., \$3.75.

TALL CLASS

Christmas Cheer. Large flowered, deep crimson-rose. Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$2.00; $\frac{1}{32}$ oz., \$3.75.

Masterpiece. Extra large flowered, light pink. Tr. pkt., \$1.25; $\frac{1}{64}$ oz., \$2.25; $\frac{1}{32}$ oz., \$4.00.

Pink Radio. Extra large flowered, rich rose. Tr. pkt., \$1.25; $\frac{1}{64}$ oz., \$2.25; $\frac{1}{32}$ oz., \$4.00.

Silver Wings. Extra large, pure white flowers. Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$2.00; $\frac{1}{32}$ oz., \$3.75.

Tall Varieties Mixed. A formula mixture of the above strong growing sorts. Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$1.50; $\frac{1}{32}$ oz., \$2.50.

Ball Begonias

Try Tuberous Rooted Begonias from Seed

TUBEROUS ROOTED SEPARATE COLORS

We offer seeds of the following separate colors of the fully double Camellia type Tuberous Rooted Begonia:

Red Scarlet	Orange Rose	Salmon Copper	Yellow White
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Prices above 8 separate colors, each: tr. pkt., \$3.00.

● **Tuberous Rooted Double Mixed.** Camellia flowered. This is the strain which appears in photo at right. Our flowering trials have consistently produced compact plants. Gorgeous colors; 90% good doubles. Tr. pkt., \$3.00.

Tuberous Rooted Single Mixed. Attractive mixture; large flowered. Tr. pkt., \$1.25; $\frac{1}{64}$ oz., \$2.50; $\frac{1}{32}$ oz., \$4.50.

Other Begonias

● **Lloydii Mixed.** Pendulous. Double flowers, about 2 inches, in shades of scarlet, rose, salmon and white. Fine for hanging baskets. Tr. pkt., \$3.00.

Rex Hybrids. Mixture of ornamental leaved Rex Begonias; many unusual variations. Tr. pkts. only, \$1.25.

Doty's Calla Queen. A novelty Fibrous Rooted Begonia with attractively variegated green and white foliage which contrasts vividly with its red and pink flowers. Needs pinching. Originator's tr. pkt., \$3.00; $\frac{1}{2}$ tr. pkt., \$1.75.



6 MONTHS FROM SEED! Tuberous Begonias

Sow early January—a minimum of 60° temperature will give a blooming 4-inch by early summer.

Ball Calendula

(3,000 seeds per oz.)



CALENDULA BALL GOLD

Breeding and selection work on Ball Calendulas was one of the accomplishments of the late Geo. J. Ball's early years in business. We are glad to report that the listed strains are in excellent shape today, having been the subject of considerable breeding work in the past several years.

Start in July or August and grow cool—not over 45° nights during fall and winter. They will not thrive in Carnation-house temperature. They need regular disbudding and prefer ground beds; otherwise they are very easy and inexpensive to handle.

● **Ball Improved Long Orange.** The longest stemmed and largest flowered variety. Golden orange.

● **Ball Masterpiece.** Deep glowing orange with dark eye.

● **Ball Lemon Queen.** Lemon-yellow with dark brown eye.

● **Ball Gold.** Deep golden yellow with light eye.

Ball Orange. Extra deep, intense orange. Light-eyed.

Campfire. Popular deep orange.

Prices above 6, each: tr. pkt., 50c; $\frac{1}{4}$ oz., \$1.00; 1 oz., \$3.00; 4 ozs., \$9.00.

Ball Formula Mixture. Carefully made up of our named varieties with fully half orange.

Ball Art Shades Mixture. Contains many original and unusual shades and interesting bi-colors.

Prices above 2, each: tr. pkt., 40c; $\frac{1}{4}$ oz., 80c; 1 oz., \$2.40; 4 ozs., \$7.20.



Calceolarias aren't at all difficult to grow from seed if a few simple requirements are met. In sowing use only loose, sterilized material—night temperature 60°. The seed is very fine and no soil covering should be used. When large enough to handle, they should go into 2½-inch bands—later into 4- or 5-inch pots for finishing. After banding a 48° house will suit them nicely. A regular insect control program is essential (aphis will wreck them in no time). We spray once a week with Parathion. From late February on they'll need protection from direct sun. Water only when dry; "wet feet" will cause yellowing of foliage.

Calceolarias

(20,000 seeds per $\frac{1}{32}$ oz.)

● **Ball Multiflora Nana Mixture.** Large heads of medium sized flowers in brilliant reds, yellows and intermediate shades. The dwarf plants are wiry in growth with small durable leaves. Tr. pkt., \$1.25; $\frac{1}{128}$ oz., \$2.75; $\frac{1}{64}$ oz., \$5.00; $\frac{1}{32}$ oz., \$9.00.

Cloth of Gold. Medium large, golden yellow flowers. Very showy. Tr. pkt., \$1.25; $\frac{1}{64}$ oz., \$2.50; $\frac{1}{32}$ oz., \$4.50.

● **Duplex Hybrids Mixed.** Upper pouch of each flower is almost as large as the lower, giving an attractive duplexed effect. Plants are bushy and fairly dwarf; nice color mixture. Tr. pkt., \$1.25; $\frac{1}{128}$ oz., \$2.00; $\frac{1}{64}$ oz., \$3.50.

● **Dwarf Tigered or Spotted.** Various spotted shades of red, yellow and rosy bronze. Dwarf and compact; needs no staking. Tr. pkt., \$1.25; $\frac{1}{64}$ oz., \$2.50; $\frac{1}{32}$ oz., \$4.50.

● **Grandiflora Dwarf Mixed.** Extra large flowers in unusual and striking colors are carried on dwarf plants. Tr. pkt., \$1.25; $\frac{1}{64}$ oz., \$2.75; $\frac{1}{32}$ oz., \$5.00.

Grandiflora Mixed. A tall growing strain of the above. Tr. pkt., \$1.25; $\frac{1}{64}$ oz., \$2.50; $\frac{1}{32}$ oz., \$4.50.

Indian Prince. A bright scarlet Multiflora Nana selection. Tr. pkt., \$1.25; $\frac{1}{128}$ oz., \$2.35.

Perennial Hybrids (Rugosa). A very small flowered type for large exhibition work and bedding. Tr. pkt., \$1.25.

● **Triumph Strain.** Medium large flowers; mostly bright reds and yellows. Tr. pkt., \$1.25; $\frac{1}{64}$ oz., \$2.75; $\frac{1}{32}$ oz., \$5.00.

Cinerarias

Colorful Cinerarias offer a welcome spring change in your customer's diet of the usual winter pot plants, and if the smaller leaved varieties like Cremer's and Siter's are used they'll take less bench space, hence cost less to grow. Finish some in 4's as well as 5's for those of your customers who want less expensive plants.

Seed is usually sown from late July through September for winter and spring pot plants. Transplant the seedlings to 2½-inch plant bands as soon as they can be handled. Before they become root-bound, shift into their final sized pot. While this method calls for a little care in preventing over-watering until they make new roots, we find it produces better results than handling them in small pots.

Festival (New). This new Cineraria is the result of 5 years of intensive breeding in our own greenhouses to develop a small-leaved strain requiring a minimum of bench space. Plants are bushy and compact with even heads of medium sized, mostly white-eyed flowers in a brilliant color range. $\frac{1}{2}$ tr. pkt., \$1.75; tr. pkt., \$3.00; $\frac{1}{64}$ oz., \$4.50; $\frac{1}{32}$ oz., \$7.50; $\frac{1}{16}$ oz., \$13.00.

● **Siter's Rainbow Strain.** 3500 seeds per $\frac{1}{32}$ oz. Excellent market strain with immense heads of medium large, mostly white-eyed flowers and small foliage. Tr. pkt., \$2.00; $\frac{1}{64}$ oz., \$2.75; $\frac{1}{32}$ oz., \$5.00; $\frac{1}{16}$ oz., \$9.00.

● **Cremer's Prize Strain.** (Our own reselected stock.) 6300 seeds per $\frac{1}{32}$ oz. Extra large heads of medium small flowers in widely varied color assortment; about half light eyed. Tr. pkt., \$1.75; $\frac{1}{64}$ oz., \$2.50; $\frac{1}{32}$ oz., \$4.50; $\frac{1}{16}$ oz., \$8.25.

● **No. 1 Mixture.** Consists of Cremer's Prize Strain and Siter's Rainbow Strain in equal proportions. Tr. pkt., \$1.50; $\frac{1}{64}$ oz., \$2.50; $\frac{1}{32}$ oz., \$4.75.

● **No. 2 Mixture.** Contains $\frac{1}{2}$ Cremer's Prize Strain and $\frac{1}{4}$ each Siter's Rainbow Strain and Multiflora Nana, Gold Center Strain. Tr. pkt., \$1.50; $\frac{1}{64}$ oz., \$2.50; $\frac{1}{32}$ oz., \$4.75.

● **Dwarf Erfurt Mixture (New).** Dense heads of medium sized flowers in a fine color balance, including copper, salmon, and maroon in addition to the usual Cineraria colors. Habit is compact and very uniform. Tr. pkt., \$1.50; $\frac{1}{64}$ oz., \$2.50.

● **"Vivid" Formula Mixture.** A mixture of solid colors (without "eyes") which we blend ourselves. Colors range from salmon and azure-blue to blood-red and dark blue. Habit is dwarf with well rounded heads and fairly small leaves. Blooms about a month later than other strains. Tr. pkt. (1000 seeds), \$1.75; $\frac{1}{64}$ oz., \$2.75. Also available in the following separate colors at the same price: White, Bright Red, Dark Red, Brick-Red (Matador), Light Blue, Mid-Blue and Dark Blue.

CINERARIAS, continued next page ➔



Ball's Cyclamen

A WORD ABOUT OUR CYCLAMEN

Repeated observations of Cyclamen flowering trials in our own greenhouses, as well as careful examination of the leading strains grown in Europe and America, have led us to believe that no one Cyclamen seed specialist excels in all varieties.

The Ball strains include only those varieties in which each grower (according to our flowering trials) excels. We can obtain seeds of all varieties of the named European strains of Binneweiss, Eveleen, etc., upon request.

CULTURE

Sowing: To have mostly 4's and 5's in flower by Christmas, a few later, sow 40% October 1, 40% November 1, 20% January 1.

A late July sowing makes heavy 6's for Christmas. Sow February 1 for nicely flowered 4's for Saint Valentine's Day. 65° best for germination; they sprout well in peat.

Growing: Best soil clear thru: 2 parts soil, 2 parts peat, 2 parts manure plus phosphate, plus regular feeding with balanced fertilizer. Transplant seedlings to flats, then to 3 inch, then to 5 or 6 inch. Many go directly from transplant to 4 inch. Growing temperature 55°. Shade, humidity in summer. Their worst enemy,



Flowering trials in our own greenhouses, one of the reasons for our extremely fine strains of Cyclamen seed. We try them all—offer you only the best.

mites, love it hot and dry, so keep foliage moist, house shaded, cool in hot weather. Wet foliage every hot afternoon. Spray every week with 15% wettable powder Parathion at 2 ounces per 10 gallons of water—plus Dreft for spreader.

DISCOUNTS—In addition to our regular cash discounts, the following special discounts are allowed on Cyclamen seed: 250 of a variety at 1000 rate (except Vogt's); 10,000 to 25,000 seeds, any assortment of varieties, less 5%; over 25,000, less 10%.

	100 Seeds	1000 Seeds
No. 1 Dark Blood-Red	\$1.90	\$17.50
No. 2 Bright Red	1.90	17.50
No. 3 Pure Rose (Rose of Aalsmeer)	1.90	17.50
No. 4 Soft Rose with carmine eye. (Improved Rose of Marienthal)	1.90	17.50
No. 5 White with carmine eye.....	1.90	17.50
No. 6 Pure White	1.90	17.50
No. 7 Bonfire. Brilliant salmon	2.50	22.00

CINERARIAS, Continued

● **Berlin Market Mixed** (White-Eyed or Weissensee Strain). 3500 seeds per $\frac{1}{32}$ oz. Large rounded heads of medium large flowers. Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$2.00; $\frac{1}{32}$ oz., \$3.75.

● **Grandiflora Dwarf Mixed.** 3500 seeds per $\frac{1}{32}$ oz. Large flowers in a wide assortment of rich colors with contrasting large white eyes. Extra dwarf and compact growth. Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$2.00; $\frac{1}{32}$ oz. \$3.75.

Stellata Mixture (Star type). Small, free flowering strain. 24 to 30 in. tall. Tr. pkt., \$1.00; $\frac{1}{62}$ oz., \$2.50.

● **Multiflora Nana, Gold Center.** 6300 seeds per $\frac{1}{32}$ oz. Attractive medium small, solid-colored flowers with yellow anthers. Good shipper. Tr. pkt., \$1.25; $\frac{1}{64}$ oz., \$2.25; $\frac{1}{32}$ oz., \$4.00.

Ball Copper-Scarlet. Compact small-leaved plants with medium sized, bright copper tinged, scarlet flowers. Uniform and attractive. Tr. pkt., \$1.50; $\frac{1}{64}$ oz., \$2.50.

Dwarf Giant Exhibition Mixture. Extra large (4 to 5 in.) flowers in a wide color range on fairly dwarf plants. For exhibition work only. Tr. pkt., \$1.50; $\frac{1}{64}$ oz., \$2.75.

Berlin Market, Dark Crimson. A deep crimson selection without any eye. Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$2.00.

	100 Seeds	1000 Seeds
No. 8 Salmon-Scarlet (America Imp.)	\$2.50	\$22.00
No. 9 New Salmon-Rose Imp.	2.50	22.00
No. 10 Glory of Wandsbek (Perle of Zehlendorf). Dark salmon	2.40	20.00
No. 11 Rose of Zehlendorf. Light salmon ..	2.40	20.00
No. 12 Orange Beauty. Orange-vermillion ..	2.50	22.00
No. 13 Rococo Mixed. Fringed flowers; unusual shapes and markings	2.50	22.00
No. 16 Saffron Red, Silver Edged	2.50	22.00
No. 17 Striped Varieties Mixed	2.40	20.00
No. 18 Mozart. Deep pink	2.50	22.00
No. 19 Lavender	1.90	17.50
No. 21 Pink Pearl. Salmon-pink	2.50	22.00
No. 22 Baardse Wonder. Salmon with white border	2.50	22.00
No. 24 Roseum Oculatum. Light pink, salmon eye	2.40	20.00
No. 26 Victoria. Fringed white, tipped red..	2.50	22.00
No. 30 Mixture of above colors	1.80	16.50
No. 50 Ruffled Lavender	2.50	23.00
No. 51 Ruffled Salmon	2.50	23.00
No. 52 Ruffled White	2.50	23.00
No. 53 Ruffled Dark Red	2.50	23.00
No. 60 Ruffled Mixture	2.50	23.00

VOGT'S DOUBLE-FLOWERED STRAIN

Admiration. Salmon-rose with shaded eye. Mixture.

Prices above 2, each: 100 seeds, \$3.75; 250 seeds, \$7.75; 500 seeds, \$14.50; 1000 seeds, \$27.50.

Annual Larkspur

(8,000 seeds per oz.)

Larkspur is an excellent, low-cost and high profit cut flower item when handled correctly. Here is a chance to substantially boost your profits. Simply take advantage of an otherwise vacant bench or invest a small amount of labor and seed in an outdoor fall or spring sowing.

For Early Summer Cut Flowers Outdoors

If a sowing is made outdoors by growers in the near South 6 or 7 weeks before the ground freezes, plants well enough established to winter over in all except the most severe seasons can be produced. In our locality sowing should be done late enough to avoid germination before the ground freezes. With good drainage and some coarse covering, such a sowing will germinate promptly in early spring and get into flower 2 or 3 weeks before the spring sown crop.

Under Glass—Spring Flowering

For indoor growing, Larkspur is a nice crop to follow either early or late Mums. Well started 3 inch banded or potted plants should be ready, and are produced by a September or later sowing.

Space at least 12x12 in. on ground beds; 10x10 in. on raised beds should be ample. The after Mum planting is generally started out cool, 40° to 45° nights, increasing to 50° with spring weather.

Germination

Larkspur seed doesn't germinate well in high temperatures. If it must be sown when hot, better do so in flats set under a bench or in a cool shed. It requires 2 to 3 weeks to come through, sometimes longer.

New Crop Seed

is always most reliable for sowing under adverse conditions of summer heat. We have a special source for Larkspur seed (7 best varieties only) permitting delivery in early July. If you order in early summer, please specify whether you prefer to wait for new crop. After August all orders are filled with new crop.

"7 BEST"

This list is based on our greenhouse flowering trials. Generally strains which are found best under glass seem also best adapted to outdoor culture.

- **Salmon Supreme.** Medium deep rose; heavy, fully double spikes.
- **Dark Blue Supreme.** Deep violet-blue; improves Blue Spire.
- **White Supreme.** The most vigorous white according to our trials.
- **Regal Salmon-Pink.** Best in its color class; large florets.
- **Super Majestic Light Blue.** An excellent light blue; outstanding.
- **Super Majestic Lavender.** Beautiful orchid-lavender; a rich color.
- **Giant Imperial Brilliant Rose.** The standard deep rose; fully double.
- **7 Best Mixture.** Blended by formula from these 7 varieties.

Prices above 4, each: tr. pkt., 40c;
 $\frac{1}{2}$ oz., \$1.10; 1 oz., \$2.00; 4 ozs.,
\$6.50; 1 lb., \$20.00.

Prices above 4, each: tr. pkt., 30c;
 $\frac{1}{2}$ oz., 70c; 1 oz., \$1.25; 4 ozs.,
\$4.00; 1 lb., \$13.00.

SPECIAL OFFER: One tr. pkt. each of above 7 varieties for \$2.35.

SUPER MAJESTICS

Extra vigorous growth with long stems and long spikes of fully double flowers.

- **Deep Carmine.** Rose, flecked white.
- **Deep Salmon-Pink.** Medium deep rose.
- **Lavender.** See 7 Best, above.
- **Light Blue.** See 7 Best, above.
- **Rose-Pink.** Excellent, medium pink.
- **Rosy Mauve.** Rich lilac shade.
- **White.** Long stemmed pure white.
- **Mixture** of above and other colors.

Prices above 8, each: tr. pkt., 30c;
 $\frac{1}{2}$ oz., 70c; 1 oz., \$1.25; 4 ozs., \$4.00;
1 lb., \$13.00.

SUPREMES

A vigorous growing, base branching class with large spikes of fully double flowers. Compares favorably with the Super Majestics in stem length and spike quality.

- **Dark Blue Supreme.** See 7 Best, above.
- **Lilac Supreme.** Good rosy lavender.
- **Rose Supreme.** Clear deep rose.
- **Salmon Supreme.** See 7 Best, above.
- **White Supreme.** See 7 Best, above.
- **Supreme Mixture.** All Supreme colors.

Prices above 6, each: tr. pkt., 40c;
 $\frac{1}{2}$ oz., \$1.10; 1 oz., \$2.00; 4 ozs., \$6.50;
1 lb., \$20.00.

LARKSPUR REGAL ROSE

Annual Larkspur

(8,000 seeds per oz.)

GIANT IMPERIALS

(Base Branching)

- **Blue Bell.** Shades of light blue.
- **Blue Spire.** Fine violet-purple.
- **Brilliant Rose.** See 7 Best, page 10.
- **Exquisite Pink Imp.** Fine medium pink.
- **Gloria Imp.** Medium rose shades.
- **Lilac King.** Rich, deep bluish lavender.
- **Lilac Queen.** Orchid; lighter and rosier than Lilac King.
- **Los Angeles Imp.** Salmon-rose.
- **Rosalind.** Vigorous, medium pink.
- **Rosamond.** Excellent deep rose. This is a Stock-Flowered variety.
- **Sweet Lavender.** A good lavender.
- **White Cockade.** Good pure white.
- **White King.** Standard white.
- **Formula Mixture** of Giant Imperials.

Prices last 14, each: tr. pkt., 30c; 1/2 oz., 70c; 1 oz., \$1.25; 4 ozs., \$4.00; 1 lb., \$13.00.

REGAL TYPE

Regal White. Heavily doubled, pure white flowers on compact spikes.

● **Regal Rose.** Rich, deep rose, with fine, heavy spikes and large, double florets.

● **Regal Salmon-Pink.** See 7 Best, page 10.

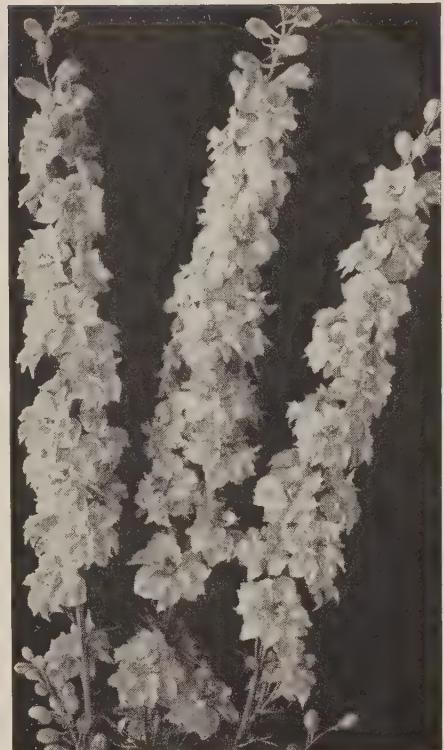
Prices above 3, each: tr. pkt., 40c; 1/2 oz., \$1.10; 1 oz., \$2.00; 4 ozs., \$6.50; 1 lb., \$20.00.

HYACINTH-FLOWERED

Produces one long non-branching spike.

Dark Blue	Lavender	Pink
Purple	White	Mixed

Prices above 6, each: tr. pkt., 40c; 1/2 oz., \$1.00; 1 oz., \$1.80; 4 ozs., \$5.50; 1 lb., \$18.00.



Larkspur make excellent subjects for either greenhouse or outdoor growing.

FLORIST FORMULA LAWN GRASS MIXTURES

We believe florists are the most critical seed buyers in the world. Whether you sell or grow, we know you want the very finest Lawn Grass Seed. That's why we are offering these special mixtures

blended by ourselves for the florist trade only. We use only heavy weight seed of grasses that produce a deep rooted, permanent turf of lasting beauty. Figure 1 lb. of seed to sow 200 sq. ft.

SUNNY LOCATIONS

Our general purpose lawn mixture of exceptionally high quality. This is our recommendation for all locations where special consideration is not necessary.

Pre-packaged in individual resale containers.—**POSTPAID.** 3 lbs., \$3.30; 5 lbs., \$5.25; 10 lbs., \$10.25; 25 lbs., \$25.00. State type, **sunny** or **shady**.

Bulk Prices—F.O.B. WEST CHICAGO. 30 to 300 lbs., 79c per lb. Over 300 lbs., write us. State type, **sunny** or **shady**.

SHADY LOCATIONS

For those shady locations we have a special mixture blended to withstand and thrive in even the deepest of shade! For partial shade, use the mixture at left.

SPECIAL DEALER OFFER No. 1 (f.o.b. West Chicago)

12 1-lb. pkgs.	} Your cost	55 lbs.
6 3-lb. pkgs.		
5 5-lb. pkgs.		\$44.50

(Suggested Retail—\$66.50)

VILLAGE GREEN

An economy mixture that fills the need for a good quality, inexpensively priced lawn grass seed.

Pre-packaged in individual resale containers—**POSTPAID.** 3 lbs., \$2.25; 5 lbs., \$3.50; 10 lbs., \$6.75; 25 lbs., \$16.50.

Bulk Prices—F.O.B. WEST CHICAGO. 30 to 300 lbs., 44c per lb. Over 300 lbs., write us.

ALL PRICES ABOVE NET

SPECIAL DEALER OFFER No. 2 (f.o.b. West Chicago)

12 1-lb. pkgs.	} Your cost	55 lbs.
6 3-lb. pkgs.		
5 5-lb. pkgs.		\$29.75

(Suggested Retail—\$45.00)

VIBRA-SEEDER

So simple, yet so practical! Even the finest of seeds can be spaced with complete accuracy. After a little experience or practice, it is very possible to greatly reduce the quantity needed by eliminating loss thru "bunching." NO necessity of changing parts to adapt the seeder to a special type or size of seed—equally good on all sizes and shapes. We use this seeder extensively in our own seed sowing operations. **Price** each, \$1.95.



Ball (GREENHOUSE - TRIALED) Pansies

(25,000 seeds per oz.)



NEW! RUFFLED RAINBOW

Try Ruffled Rainbow—a pedigreed Pansy of absolute uniformity, excellent color range and uniquely attractive, ruffled petals. A very fine, dwarf, uniform, brightly colored Pansy.

There's a "world of difference" between Pansy strains, both in quality and characteristics. For an "all-purpose" strain, we recommend Ball Giant Mixture. But if your trade can use mixtures with special and unusual characteristics which Pansy breeders have worked into their species, better check the list over thoroughly. New this year and strongly recommended is the richly colored ruffled-petaled strain, Ruffled Rainbow.

● **Ruffled Rainbow** (New. Pictured above). An unusually uniform dwarf mixture characterized by medium large flowers with distinctly ruffled petals and a wide range of colors. Absolutely no "culls." This strain was the most outstanding "find" in our 1951 Pansy trials. Tr. pkt., \$1.00; $\frac{1}{8}$ oz., \$2.75; $\frac{1}{4}$ oz., \$5.00; 1 oz., \$15.00.

America. An exceptionally free flowering mixture with medium sized blooms. Dwarf and extra early. Tr. pkt., 65c; $\frac{1}{8}$ oz., \$2.75; 1 oz., \$10.00.

● **Ball Winter Flowering.** A tall growing winter cut-flower variety; at its best from a late summer sowing. Not for bedding. $\frac{1}{2}$ tr. pkt., 65c; tr. pkt., \$1.10; $\frac{1}{8}$ oz., \$2.75; $\frac{1}{4}$ oz., \$5.00.

"FOUR BEST"

● **Ball Giant Mixture.** This is our finest and most popular bedding Pansy mixture. We blend this ourselves, using the best available strains of Swiss Giants, adding separate varieties to insure a good balance of colors. Tr. pkt., 65c; $\frac{1}{4}$ oz., \$2.75; 1 oz., \$9.00; 4 ozs., \$33.00.

Maple Leaf Giants. An excellent, extra large flowered strain. Heavy growth with good stems. Tr. pkt., 65c; $\frac{1}{8}$ oz., \$1.65; $\frac{1}{4}$ oz., \$3.00; 1 oz., \$10.00.

● **Roggli Giant Mixture.** A choice Swiss bedding strain, predominating in rich red and bronze shades. If you want the "best, regardless of price," this imported Swiss strain grown by the originator should be used. Many rich red and bronze shades, very large flowers, heavy petal substance and very uniform—no "culls." We supply originator's imported seed only. Tr. pkt., \$1.50; $\frac{1}{8}$ oz., \$3.75; $\frac{1}{4}$ oz., \$7.00; 1 oz., \$22.00.

Steele's Jumbo Mixture. We handle the originator's seed of this popular American strain. Tr. pkt., \$1.25; $\frac{1}{8}$ oz., \$3.25; $\frac{1}{4}$ oz., \$5.50; 1 oz., \$18.00.

● **Ball Giant Mixture Dwarf Strain.** A fine Swiss Giant strain selected for dwarf and compact habit. Tr. pkt., 65c; $\frac{1}{8}$ oz., \$1.40; $\frac{1}{4}$ oz., \$2.75; 1 oz., \$9.00; 4 ozs., \$32.00.

Blue Butterfly (New). Blue and white. An improved Lord Beaconsfield. Tr. pkt., \$1.00; $\frac{1}{8}$ oz., \$2.75; $\frac{1}{4}$ oz., \$5.00; 1 oz., \$15.00.

● **Butterfly Hybrids.** Ruffled 2½-3-in. flowers, including unusual apricot, terra cotta and rosy orchid shades, are freely produced on vigorous plants. Originator's seed only. Tr. pkt., \$1.25; $\frac{1}{16}$ oz., \$2.25; $\frac{1}{8}$ oz., \$4.00; $\frac{1}{4}$ oz., \$7.00; $\frac{1}{2}$ oz., \$12.50; 1 oz., \$22.50.

● **Canadian Giants.** This selection from Maple Leaf Giants contains some of the largest flowers in Pansies. Tr. pkt., \$1.00; $\frac{1}{8}$ oz., \$1.85; $\frac{1}{4}$ oz., \$3.30; 1 oz., \$11.00.

● **Engelmann's Giant Mixture.** A large flowered and brightly colored strain, many being penciled or veined. Fairly compact growth. We offer originator's seed only. Tr. pkt., \$1.00; $\frac{1}{4}$ oz., \$4.00; 1 oz., \$14.00.

● **Felix.** See Felix in color on page 14. Many colors, all with vividly contrasting black-veined throats. **Sold out till new crop this fall.** Tr. pkt., \$1.25; $\frac{1}{8}$ oz., \$3.00; $\frac{1}{4}$ oz., \$5.50; 1 oz., \$16.00.

Fluffy Ruffles. The medium sized flower of this imported strain are attractively ruffled and frilled, and the color range is varied and appealing. Tr. pkt., 65c; $\frac{1}{4}$ oz., \$2.75; 1 oz., \$9.00.

Geneva Giants. A taller, more vigorous-growing American strain of Swiss Giants. Tr. pkt., 85c; $\frac{1}{4}$ oz., \$3.00; 1 oz., \$10.00.

Improved Swiss Giants. Predominates in rich bronze and red shades. Tr. pkt., 65c; $\frac{1}{4}$ oz., \$2.75; 1 oz., \$9.00.

"101" Giant Mixture. A choice bedding and basket Pansy of the "English" type. Large flowers in a wide color range on compact plants. Tr. pkt., 75c; $\frac{1}{8}$ oz., \$2.00; $\frac{1}{4}$ oz., \$3.50; 1 oz., \$12.00.

Oregon Giants. (New). A complete mixture of long-stemmed, large flowered Giant Ruffled Pansies. Originator's seed. 200 seeds, 50c; 600 seeds, \$1.25; $\frac{1}{4}$ oz., \$4.00; 1 oz., \$12.00.

Tigress. Pictured on next page. "Miniature Pansies." The flowers of this European novelty are produced in great abundance, and the effect is most unusual. Reds, yellows, orchids and purples in novel striped and blotched arrangements of at least 3 colors create a striking appearance. Tr. pkt., 50c; $\frac{1}{4}$ oz., \$1.75; 1 oz., \$5.00.



TIGRESS

True to name. "Strikingly striped", interesting mixture.

ALPENGLOW

A rich garnet-red.

MONT BLANC

Our most popular white.

RASPBERRY ROSE

A unique and lovely Pansy color—sells on sight.

Sell Separate Color Pansies

Alpenglow. Rich garnet-red.

Berna. Dark velvety blue.

● **Coronation Gold.** The finest clear yellow.

● **Delft Blue.** Porcelain-blue; a prized and unusual Pansy color. Flowers rather small. Particularly free flowering.

● **Firebeacon.** Bright, flaming orange with dark center.

Giant Orange. Light orange; similar in color to *Viola Apricot*.

● **Lake of Thun.** Large flowered blue with darker center.

Mont Blanc. Ivory-white with small yellow eye.

● **Raspberry Rose.** Soft pink with contrasting velvety blotch in deeper tone.

Rhinegold. Large flowered yellow with dark center.

Prices above 10, each: tr. pkt., 80c; $\frac{1}{8}$ oz., \$2.00; $\frac{1}{4}$ oz., \$3.50; 1 oz., \$11.00.

Jet Black. 80% of the flowers are a true black throughout the spring, the purple undertone not becoming apparent until hot weather. Typical Swiss flower size. Tr. pkt., \$1.00; $\frac{1}{8}$ oz., \$3.00; $\frac{1}{4}$ oz., \$5.50; 1 oz., \$20.00.

NEW ROGGLI SEPARATE COLORS Originator's Seed

We have definitely proved by thorough comparative flowering trials at West Chicago the general superiority of these originator-grown Swiss Giant Pansies. For flower size, uniformity of color and habit, they are the finest separate color Pansies available.

● **Eiger** (Rhinegold). Same yellow and dark brown combination as Rhinegold, but flowers are larger and this strain is more uniform and impressive than Rhinegold.

● **Hohenfeuer** (Firebeacon). Coppery red with darker face; uniform and true to type.

● **Blumlisalp** (Raspberry Rose). This is a true Raspberry Rose with large flowers. Greatly improves regular Raspberry Rose in uniform quality.

Berna. (Specify originator's seed). Medium large, deep velvety violet flowers are carried on dwarf plants.

Alpengluhn (Alpenglow). Mahogany with dark blotch.

Jungfrau. White.

Thunersee (Lake of Thun). Gentian-blue with dark eye. Finest blue Pansy.

Monch (Coronation Gold). Clear yellow.

● **Roggli Giant Mixture.** See 4 best opposite page.

Prices above 9 varieties, each: tr. pkt., \$1.50; $\frac{1}{8}$ oz., \$3.75; $\frac{1}{4}$ oz., \$7.00; 1 oz., \$22.00.

NOTES ON PANSY CULTURE

In the latitude of Chicago, Pansies are usually sown early in August. As far south as Oklahoma this should be delayed until around September 1, because of prolonged hot summers. Sowing is best done in an outdoor frame covered with cloth and in light soil containing plenty of decayed organic matter.

Close attention to moisture is essential. When large enough to handle, seedlings are transplanted 4x4 or 4x6 inches into frames or open beds. Some form of loose covering is desirable in the North after plants are frozen in—further south this protection is not so important.

DELFT BLUE

A delicate porcelain-blue—increasing in popularity.

CORONATION GOLD

Most popular of the separate colors.

LAKE OF THUN

Best selling blue.

RHINEGOLD

Bright golden yellow with striking "Swiss" blotch.



Felix Pansy

A Ball Introduction

Uniformly true to type, with well ruffled flowers of good size carried on fairly dwarf plants. Colors are rich and unusual—including purple, apricot and wine shades together with pastel bronzes and smoky tones difficult to describe. Each flower is marked with the dark "whiskers" characteristic of this strain, and the over-all effect is indeed striking. New crop seed available in Aug. Tr. pkt., **\$1.25**; $\frac{1}{8}$ oz., **\$3.00**; $\frac{1}{4}$ oz., **\$5.50**; 1 oz., **\$16.00**.



Nation-wide Sales Promotion for FELIX!

Look out—for your sales opportunity in Felix Pansy in 1953.



Pansies rank among the leaders in spring plant sales, and here's a chance for you to increase your Pansy sales. Nation-wide Pansy sales promotion featuring **Felix** will reach the public early in 1953. This is just what your customers have been looking for—something distinctly new and attractive in Pansies. We will have special labels and promotional material available. More details in our January '53 catalog.

Primulas

(Primroses)

PRIMULA OBCONICA

(4,000 seeds per $\frac{1}{32}$ oz.)

These colorful and showy plants still provide the grower with one of his best sources of mid-winter pot plant material. In spite of their effect on some people's skin, they continue to be widely grown and called for.

Sowings made during June and July will produce nice pot plants for late winter and spring. We carry them along in 2½-inch bands from the seed flat, shifting when ready to their final size pot. Important points are a soil that drains readily and a cool, well shaded location during the summer. Fasbender's Red and Mohnstein's Atrosanguinea are the preferred reds; Berlin Rose is the best pink. Blue and white are wanted in smaller quantities.

- **Fasbender's Red.** An outstandingly fine, extra large flowered deep crimson-red.
- **Better Days.** Bright carmine-red.
- **Mohnstein's Red.** (Atrosanguinea). Popular deep red.
- **Mueller's Berlin Rose.** (Mueller's Rosea). Soft medium rose. Heavy compact plants and large flowers.
- **Salmon-Rose** (Lachsrosa). Salmon-rose shades.
- **Sky-Blue** (Coerulea). Clear mid-blue. A choice strain.
- **White.** Rather tall growth.
- **Formula Mixture.** Carefully blended from above colors.

Prices above 8, each: tr. pkt., **\$1.25**; $\frac{1}{64}$ oz., **\$2.75**; $\frac{1}{32}$ oz., **\$5.00**.

Violet Blue. (New). Deep violet. Tr. pkt., **\$1.25**; $\frac{1}{64}$ oz., **\$3.00**; $\frac{1}{32}$ oz., **\$5.50**.

Wyaston Wonder. A special selection of this famous English variety. Vigorous growing, large flowered bright crimson. Tr. pkt., **\$1.50**; $\frac{1}{64}$ oz., **\$3.00**; $\frac{1}{32}$ oz., **\$5.50**.

PRIMULA CHINENSIS

(Chinese Primula)

A popular class with many retail growers. Very colorful and showy. Sow from March on for Christmas and later.

● **Kardinal.** Vivid, intense orange. Improves Dazzler in depth and brilliance. Tr. pkt., **\$1.50**; $\frac{1}{64}$ oz., **\$5.00**.

Special Mixture. A choice assortment of colors. Tr. pkt., **\$1.25**; $\frac{1}{32}$ oz., **\$3.75**.

PRIMULA MALACOIDES

(12,000 seeds per $\frac{1}{32}$ oz.)

Baby Primroses, as they are often called, provide the grower with one of his most valuable sources of colorful materials for Valentine's Day and early spring combination boxes. You'll find they move readily as pot plants, too. 3's and 4's are the most profitable sizes, and they can be had from late January on by sowing from August to October.

Malacoides Primulas are of easy culture if they are grown in an airy, cool house (45° night temperature) and not allowed to get dry between waterings. Equally important is the avoidance of fertilized soil in the seed flat or early stages of growth.

- **No. 32 Glory of Riverside Imp.** One of the finest varieties with freely produced, beautiful salmon-rose flowers.
- **No. 41 White Giant.** This is by far the finest pure white variety available. Large flowers and heavy stems.
- **No. 43 Brilliancy Improved.** Large, beautifully fringed flowers of rich wine-red. This is our own origination and should not be confused with the old, small flowered Brilliancy.
- **No. 51 Mrs. Eriksson of Riverside.** Large flowers of deep rose-red on compact plants of medium height. The brightest color in Baby Primroses.
- **No. 62 Ball Lavender.** Flowers are large and of a beautiful orchid-lavender shade. Many are attractively fringed, adding much to their appearance.
- **No. 50 Mixture.** Carefully blended by formula from named separate color varieties.
- **No. 64 Red Velvet.** (New). Newly opened flowers are a bright coral-rose changing to deep, velvety crimson-red as they mature. This is our own origination and is an entirely new color in Malacoides.

Prices above 7, each: tr. pkt., **\$1.25**; $\frac{1}{64}$ oz., **\$2.75**; $\frac{1}{32}$ oz., **\$5.25**.

DOUBLE MALACOIDES

Fairy Jewels. Double pink. Tr. pkt. (1000 seeds), **\$1.50**; $\frac{1}{128}$ oz., **\$2.50**.

Ball NON-BRANCHING Stocks

(18,000 seeds per oz.)

A visit to any market in the spring will confirm the fact that Non-Branching Stocks remain high on the list of cool house crops. Easter remains the high point for them, but for either market or retail grower a succession of crops flowering from February through May pays best. **Steady supply!**

Our Stock breeding work (already 20 years old) has recently yielded improved strains of white, lavender, pink and other colors. We believe you will find them definitely heavier, finer spiky, generally superior. These new strains are offered at standard prices.

We figure on 5 to 5½ months from seed sowing to cutting for Easter, and 4½ to 5 months for Mother's Day, depending on whether raised or ground benches are used, temperatures, and the prevailing amount of sunshine. We space them 3 inches in rows 6 inches apart crossways of the bench. Soil sterilization is im-

portant, as is good drainage and care in watering to aid in the control of the root rot which sometimes affects Stocks. Sub-irrigation, where practical, affords excellent control, as the surface of the soil where infection occurs can be kept relatively dry. Seed may be sown direct in the flowering bench and plants thinned later; or transplanted from seed flats, saving a month's use of bench space. Direct sowing in 2x2 veneer bands pays where you are crowded for time.

See GROWER TALKS, July 1951, for complete cultural notes.

For outdoor growing. Recommended varieties for outdoor culture (West Coast and other areas): White Giant, Gardenia Improved, No. 16, No. 22, No. 7, No. 8, No. 20, and No. 1.

OUR "6 BEST"

- **No. 16 Ball White—Medium Tall.** Early, pure white.
- **No. 1 Lilac-Lavender Improved.** Popular silvery lilac.
- **No. 22 Ball Supreme.** Fine, heavy spikes of rich silvery rose.
- **No. 20 Ball Apricot.** Apricot, faintly tinged pink.
- **No. 21 Purple Heart.** Bright violet-purple.
- **No. 8 Ruby Improved.** Crimson-red.

WHITE

● **No. 16 Ball White—Medium Tall.** This early pure white is the most popular variety on our entire list.

No. 99 Ball White. We find this pure white averages 4 to 6 inches longer spike and stem than our popular No. 16.

White Giant. Originator's seed. Good long stemmed white. Best white for outdoor culture in cool areas. We prefer our No. 16 Ball White for greenhouse use, altho some growers have reported favorably on White Giant for greenhouse use.

Gardenia, Imp. Originator's seed. Pure white. Branches somewhat. Basic improvements have been made on this fine outdoor strain.

No. 5 Ball Dwarf White. Spikes of this dwarf Non-Branching Stock resemble a white Hyacinth. An ideal pot plant variety.

Hansen's ALL-DOUBLE Select

Light leaved doubles and dark leaved singles—apparent in the seedling stage—provide a positive means of separating singles from doubles in this strain. Stems are about 2/3 as long as the regular Ball-type Column stocks. **Seedlings must be developed in temperatures of 50° or lower for accurate selection of light-leaved doubles.**

Shell-Pink Lilac-Rose Rose White

Prices above 4 varieties, each: tr. pkt., \$1.50; $\frac{1}{16}$ oz., \$2.70; $\frac{1}{4}$ oz., \$9.00.

Branching Mixed. A branching type of the All-Double Select Stocks described above. Used for bedding and pots. Tr. pkt., 75¢; $\frac{1}{16}$ oz., \$1.20; $\frac{1}{4}$ oz., \$4.00.

LAVENDER, BLUE and PURPLE

- **No. 1 Lilac-Lavender Improved.** This is our new strain of this popular silvery lilac variety. Stems are heavier with longer flower spikes—and we find it quite resistant to rot.
- **No. 3 Ball Blue Improved.** Heavier stems and better spikes than our earlier Ball Blue. Double percentage slightly low.
- **No. 21 Purple Heart.** Long stemmed, large flowered, bright violet-purple. Striking combined with white, buff and yellow.

PINK, ROSE and RED

- **No. 22 Ball Supreme.** A long stemmed, vigorous growing variety with fine, heavy spikes of rich silvery rose. The most outstanding Stock in its color class.
- **No. 11 Ball Pink.** A medium light rose-pink. Earlier and somewhat lighter than our No. 22, but not quite as long stemmed.
- **No. 14 Ball Rose.** An early flowering, fairly deep rose-pink. Darker in color and longer stemmed than the above variety.
- **No. 9 Chamois-Pink.** A warm rosy buff color. Good stems and flower spikes.
- **No. 7 Malmaison Pink Improved.** Long spikes of soft shell-pink; a popular color. Entirely non-branching.
- **No. 6 American Beauty.** Rich deep American Beauty or carmine-rose. An appealing color.
- **No. 8 Ruby Improved.** Larger florets and a more brilliant scarlet-crimson color than the former Ruby.

Pink Giant. Originator's seed. Color identical to No. 14 Ball Rose, but later and somewhat taller.

MISCELLANEOUS VARIETIES

- **No. 20 Ball Apricot.** Long spikes of rich apricot faintly tinged pink. Blends well with lavenders and purples.
- **No. 24 Deep Apricot Improved.** A more coppery terra cotta shade than the earlier strain. A good novelty color.
- **No. 17 Gold Standard.** Creamy ivory-yellow.
- **No. 10 Mixture.** Our own formula mixture.

Prices all Non-Branching Stocks, (except All-Double Select listed at left), each: $\frac{1}{2}$ tr. pkt., 75¢; tr. pkt., \$1.25; $\frac{1}{4}$ oz., \$2.75; $\frac{1}{2}$ oz., \$5.25; 1 oz., \$10.00.

See page 16 for Branching Stocks

Winter Sweet Peas

(350 seeds per oz.)

NEW! ZVOLANEK'S MULTIFLOWERED CLASS



5's and 6's are not uncommon in this strain

The fine varieties listed below were flowered in our winter greenhouse trials last year where we found them not only unusually free flowering, but of exceptional stem length with many stems carrying 5 and 6 flowers instead of the usual 3 and 4. Sweet Pea growers can readily appreciate what this will mean in better market returns over a period of a few weeks of picking. We strongly recommend them, where long stems and premium quality are wanted.

Whirlwind. Probably the finest of the new Multi-flowered type. Extra large, light rose flowers are borne in 5's and 6's on extremely heavy 14- to 16-inch stems. Growth is very vigorous and strong.

White. Pure white. Many 5's on long, strong stems. Very promising. Available in August.

Rose. Extra large medium rose flowers with many 5's on extra long, heavy stems. Vigorous growth.

Salmon Pink. Large, medium rose-pink flowers with salmon cast. 4's and 5's. Stems are extra long, but not as heavy as the above varieties.

Orange Cerise. Color as named. Extra large flowers on long stems. A bright and striking color.

Prices above varieties, each: $\frac{1}{2}$ oz., \$2.00; 1 oz., \$3.75; 4 ozs., \$12.50; 1 lb., \$40.00.

Winter Peas are still one of the retail grower's bread and butter crops—and when well grown they are wanted on most wholesale markets. The long stemmed, fragrant beauties that bring real prices call for sterilized soil and early sowing so that vines will become sufficiently hardened to hold buds for winter flowering. With us this is early July—later farther south. Based on our annual greenhouse trials, the varieties listed under our "12 Best" are dependable and proven commercial varieties.

OUR "12 BEST"

PINK, ROSE and SALMON

- **New Ball Rose.** Free flowering, bright rose. Shorter vines make this variety valuable where headroom is limited.
- **Ball Rose Queen.** Extra long stemmed and large flowered clear rose-pink. One of the finest commercial varieties.
- **Ball Rose Supreme.** Large wavy flowers of bright silvery rose-pink. Good stems and free flowering.
- **Ball Salmon.** Fairly deep salmon-pink; an excellent producer.

ORANGE and RED

- **Ball Orange Supreme.** Improves the original Ball Orange in better stem length and more brilliant color.
- **Treasure Island.** Large wavy flowers of glowing orange-scarlet.
- **Fiesta.** Brilliant scarlet-cerise, the finest red in early Peas.

LAVENDER, BLUE and PURPLE

- **Ball Blue Supreme.** The same rich blue color as Mrs. Hoover, but larger flowered and a better producer.
- **Twilight.** A bright clear lavender. Considered by many an improvement over Harmony.
- **Triumph.** Long stemmed, rich lilac-mauve; very well liked.
- **Rhapsody.** Extra large flowered, deep rosy lavender.

WHITE

- **Ball White.** The finest long stemmed pure white; white seeded.

MIXTURE

- **12 Best Mixture.** Our own formula mixture of the above twelve.
- Prices above 13, each: $\frac{1}{2}$ oz., 35c; 1 oz., 55c; 4 ozs., \$1.65; 1 lb., \$6.00.

Branching Stocks

Retail growers should include some of this class in their planting. All, with the exception of the Dwarf Ten Week, are handled the same. Plant 8x8 in. and top when about 8 in. tall for plenty of good flowers with medium length stems. The Dwarf Ten Week type is largely used for pot plants.

GIANTS OF CALIFORNIA

- Golden Gate.** Soft, creamy yellow.
- Monterey.** A clear bright pink.
- **Pacific.** Fairly dark lilac-mauve.
- Redwood.** Ruby-red.
- Santa Barbara.** Chamois or buff.
- **Santa Maria.** Best branching white.
- **Tahoe.** Clear lavender.
- **Yosemite.** Rich rose-pink.

Prices above 8, each: tr. pkt., 40c; $\frac{1}{4}$ oz., \$1.40; 1 oz., \$4.75.

Mixture of all colors in this class. Tr. pkt., 40c; $\frac{1}{4}$ oz., \$1.25; 1 oz., \$4.25.

IMPROVED BISMARCKS

- Antique Copper.** Fine copper-red.
- Apple Blossom.** Pale, delicate pink.
- Blood-Red.** Bright ruby-red.
- **Chamois.** Clear chamois or buff.
- **Elk's Pride.** Rich purple.
- Golden Ball.** Ivory-yellow.
- **Lavender.** Clear lilac-lavender.
- Lilac.** Fairly deep lilac-blue.
- **Rose.** Fine bright rose-pink.
- **Shasta.** Giant flowered white.

Formula Mixture of above colors.

Prices above 11, each: tr. pkt., 40c; $\frac{1}{4}$ oz., \$1.25; 1 oz., \$4.00.

DWARF TEN WEEK

- Blood-Red** **Carmine-Pink** **Lavender**
- Canary-Yellow** **Deep Rose** **Purple**
- White** **Formula Mixture**

Prices above 8, each: tr. pkt., 30c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.25.

BROMPTON or WINTER

- Early Harbinger.** Mixed colors. Tr. pkt., 50c; $\frac{1}{4}$ oz., \$2.00; 1 oz., \$6.00.

SEE PAGE 15 FOR
NON-BRANCHING STOCKS

Winter Peas

(350 seeds per oz.)

STANDARD VARIETIES

PINK, ROSE and SALMON

- American Beauty.** American Beauty rose.
- Apollo.** Salmon-cerise; fine for spring.
- Boon.** Deep salmon-rose.
- Bridesmaid.** Delightful silvery pink. Long stemmed.
- **Daphne.** Soft salmon-pink on cream. Large flowered.
- **Hiawatha.** Strong growing, large flowered deep rose.
- Josie.** Rose-pink; rather small flowered.
- **Laddie Imp.** Long stemmed, fairly light rose-pink.
- Majestic Rose.** Large flowered pink.
- **Mother Machree.** Large coral-rose flowers; semi-duplexed.
- Sequoia.** Large flowered standard salmon-rose.
- **Tops.** Extra large, wavy flowered, light salmon-rose.

ORANGE and RED

- **Redwood.** Large flowered, deep velvety crimson.
- **Signal Red.** Long stemmed, brilliant red.
- **Sparks.** The finest Poppy scarlet.

LAVENDER, BLUE and PURPLE

- **Avalon.** Large, even mid-blue flowers on long stems. A vigorous grower.
- **Bacchus.** Deep maroon-purple; large flowered.
- Fragrance.** Clear lavender for spring flowering.
- Harmony.** Standard early flowering lavender.
- Michigan.** Clear lavender.
- **Mrs. Hoover.** Standard early mid-blue.
- **Princess Blue.** Large flowered, light blue; very attractive.
- **Top Hat.** Deep bright violet-blue.

WHITE and CREAM

- Cascade.** Extra large, white seeded white.
- **Gardenia.** Long stemmed pure white for spring.
- **Hope.** Fine black seeded white.
- Oriental.** Black seeded cream.
- **White Harmony.** Similar to Hope; black seeded.

MIXTURE

Ball Early Mixture. Carefully balanced mixture of winter varieties. $\frac{1}{2}$ oz., 30c; 1 oz., 50c; 4 ozs., \$1.50; 1 lb., \$5.50.

Prices all above (except Mixture), each: $\frac{1}{2}$ oz., 35c; 1 oz., 55c; 4 ozs., \$1.65; 1 lb., \$6.00.

Summer Peas

(350 seeds per oz.)

BALL "TEN BEST"

- **Ball Shrimp-Pink.** A pleasing soft shrimp-pink.
- **King Lavender.** Exceptionally fine clear, even lavender with long, strong stems. Excellent growth.
- **Maytime.** A bright golden cerise; large flowers and long stems.
- **Olympia.** A rich mauve; similar in color to the winter flowering variety, Triumph.
- **Pinkie.** Finest large flowered rose-pink; a heavy producer.
- **Snow White.** The finest clear white; black seeded.
- **Stylist.** Large flowers of clear, deep salmon-rose-pink.

Spring Peas

Cuthbertson Strain

(350 seeds per oz.)

This class is between the Winter and Summer types in habit and flowering season. For spring greenhouse flowering their stronger growth and longer stems are an advantage over the Winter varieties, yet they flower several weeks ahead of the Summer group. For greenhouse use, sowing should be done between October and February. They are also much used for winter outdoor growing in the extreme South.

PINK, ROSE and SALMON

- Billy.** Bright cerise-rose on salmon; very showy.
- **Carol.** Attractive clear pink on white ground.
- Doris.** Deep cherry-rose. Extra strong growth with fine stems, many with 4 flowers.
- Evelyn.** Extra long stemmed, soft salmon-pink.
- **Lois.** Light rose-pink, similar in color to Ball Rose Queen in the Winter class.

RED

- **Coline.** Vivid, intense scarlet.
- **Jimmy.** Rich, deep scarlet-red. In our trials this was the longest stemmed and most vigorous of all the Cuthbertsons.

LAVENDER, BLUE and PURPLE

- Danny.** Brilliant, deep marine blue.
- **Frank G.** Fine soft rosy lavender. One of the best.
- Hazel.** Soft, light princess blue shade.
- **Jessie.** Closely resembles Winter Flowering Triumph in its rich lilac coloring.
- **Tommy.** A clear mid-blue about the color of Mrs. Hoover in the Winter class.

WHITE

- **Janet.** Large frilled white flowers are carried on long, heavy stems; black seeded.

MIXTURE

- **Mixture.** A mixture balanced according to demand for each color.
- Prices** above 14 Cuthbertson varieties, each: $\frac{1}{2}$ oz., 35c; 1 oz., 55c; 4 ozs., \$1.65; 1 lb., \$6.00.

Popular Hardy Perennials

A sowing of hardy perennials made this summer will flower freely next year with a minimum of care. See our January catalog for a more complete description of the following.



AQUILEGIA CRIMSON STAR HYBRIDS

The rich contrast of its red and white flowers have made Crimson Star Hybrids one of the most popular Aquilegias grown.

ACHILLEA—● **Filipendula, Parker's Variety** (Cloth of Gold). Golden yellow.

● **The Pearl** (Ptarmica). The standard double white for cutting. Above 2, each: tr. pkt., 30c; 1/8 oz., 70c; 1/4 oz., \$1.25.

ACONITUM (Monk's Hood)—**Napellus**. Dark blue; does best in partial shade. Tr. pkt., 30c; 1/4 oz., 80c.

ALSTROEMERIA—**Chilensis**. Shades of pink, rose and red. Medium tall. Germination erratic. Tr. pkt., 55c; 1/4 oz., \$1.65; 1 oz., \$5.00.

ALYSSUM—● **Saxatile Compactum** (Gold Dust). Rich golden yellow. Tr. pkt., 20c; 1/4 oz., 35c; 1 oz., \$1.00.

Saxatile Silver Queen (Sulphureum). Light lemon-yellow. Tr. pkt., 30c; 1/4 oz., 65c; 1 oz., \$2.40.

ANCHUSA—**Dropmore Strain** (Italica). Nice blue for cutting. Tr. pkt., 20c; 1 oz., 60c.

Myosotidiflora. May flowering Forget-me-not blue. Tr. pkt., 60c; 1/8 oz., \$1.35; 1/4 oz., \$2.50; 1 oz., \$8.50.

ANEMONE—**St. Brigid Mixed**. Choice long stemmed mixture of brilliant colors. Tr. pkt., 55c; 1/4 oz., \$1.10; 1 oz., \$3.25.

ANTHEMIS—**Kelwayi** (Hardy Marguerite). Yellow Daisy flowers produced throughout summer. Tr. pkt., 20c; 1 oz., 70c.

AQUILEGIA (Columbine)—**Alpina**. Blue.

Coerulea (Rocky Mountain Columbine). Sky-blue; white corolla.

● **Mrs. Scott Elliott's Hybrids**. An excellent and popular long-spurred mixture.

Rose Queen. Rose with white corolla.

Snow Queen. Extra large, pure white flowers.

Above 5 varieties, each: tr. pkt., 40c; 1/4 oz., \$1.00; 1 oz., \$3.25.

Copper Queen. Copper-red shades with yellow corolla. Tr. pkt., 55c; 1/8 oz., \$1.65; 1/4 oz., \$3.00.

● **Crimson Star Hybrids**. Dark red with white corolla; varies some. Tr. pkt., 60c; 1/8 oz., \$1.50; 1/4 oz., \$3.00.

AQUILEGIAS, Continued

Longissima. Delicate, pale yellow with extra long (4 in.) spurs. Tr. pkt., 60c; 1/16 oz., \$2.50; 1/8 oz., \$4.75.

● **Longissima Hybrids**. A variety of attractive shades in this extra long-spurred class. Tr. pkt., 60c; 1/16 oz., \$2.00.

Mrs. Nicholls. Deep blue. Tr. pkt., 50c; 1/8 oz., \$1.50; 1/4 oz., \$2.75; 1 oz., \$9.00.

● **Long-Spurred Mixture**. A well-balanced blend with large flowers and long spurs. Based on our trial ground observations, this is the preferred mixture. Tr. pkt., 40c; 1/4 oz., \$1.00; 1 oz., \$3.25.

ARABIS (Rock Cress)—**Alpina, Snowcap**. Shining snow-white. Tr. pkt., 40c; 1/4 oz., 80c; 1 oz., \$2.75.

Alpina. White. Tr. pkt., 25c; 1/4 oz., 55c; 1 oz., \$1.80.

Spring Charm (Blepharophylla). Carmine. Tr. pkt., 50c; 1/8 oz., \$1.25; 1/2 oz., \$4.50.

ARMERIA (Thrift)—**Alpina**. Dwarf, bright rose. Tr. pkt., 75c; 1/16 oz., \$2.75.

Formosa, Large-Flowered Hybrids. Tr. pkt., 40c; 1/8 oz., 75c; 1/4 oz., \$1.40; 1 oz., \$4.25.

● **Glory of Holland**. Ball-shaped deep pink flowers about 1 1/2 inches in diameter. Tr. pkt., 60c; 1/8 oz., \$2.00.

Maritima (Statice Armeria). Lilac-rose. Grass-like, evergreen foliage. Tr. pkt., 60c; 1/8 oz., \$1.50.

ARTEMISIA—**Silver Plume** (Lactiflora). Silvery foliage; creamy blooms. For cutting. Tr. pkt., 40c; 1/16 oz., 75c; 1/4 oz., \$2.25.

ASCLEPIAS—**Tuberosa**. Fine orange for cutting. Tr. pkt., 30c; 1/4 oz., 90c; 1 oz., \$3.00.

ASPARAGUS—**Willow Spray** (Verticillatus). Completely hardy, summer green material. Finely cut foliage. Requires 3 years for best results. Tr. pkt., 55c; 1/2 oz., \$1.35; 1 oz., \$2.50.

ASTER—**Hardy Large-Flowered Mixture**. Attractive assortment. Tr. pkt., 55c; 1/8 oz., \$1.25; 1/4 oz., \$2.25.

Alpinus, Finest Mixed. Tr. pkt., 55c; 1/8 oz., \$1.10.

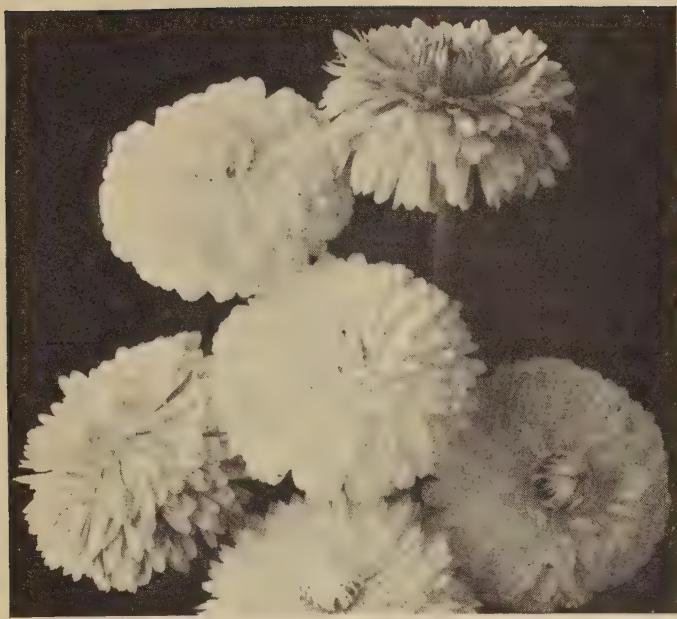
AUBRIETIA—**Large-Flowered Hybrids**. (Monarch strain.) Wide and bright color mixture. Tr. pkt., 55c; 1/8 oz., \$1.10. **Hendersoni**. Deep purple. Tr. pkt., 55c; 1/8 oz., \$1.10. **Leichtlini**. Carmine-rose. Tr. pkt., 55c; 1/8 oz., \$1.10.

BAPTISIA—**Australis** (False Indigo). Sprays of pea-shaped, indigo-blue flowers. Tr. pkt., 30c; 1 oz., 80c.

ARMERIA Glory of Holland

The ball-shaped, deep pink flowers of this valuable perennial are carried on stems of good length.




BELLIS PERENNIS

This popular Double English Daisy is much used for spring and early summer bedding. Though a perennial, it is commonly grown as an annual like Pansies.

BELLIS—PERENNIS. Popular Double English Daisy.

Red Rose White
Above 3, each: tr. pkt., 60c; $\frac{1}{8}$ oz., \$2.00; $\frac{1}{4}$ oz., \$3.75.

Mixture. Tr. pkt., 60c; $\frac{1}{8}$ oz., \$1.80; $\frac{1}{4}$ oz., \$3.40.

BOCCONIA—Japonica (Plume Poppy). Tr. pkt., 30c; $\frac{1}{4}$ oz., 55c; 1 oz., \$1.65.

BOLTONIA—Latisquama. Delicate pink. Tr. pkt., 30c; $\frac{1}{4}$ oz., \$1.00; 1 oz., \$3.25.

BROOM—Hybrids Mixed. Vigorous shrubs; bright color range. Tr. pkt., 50c; $\frac{1}{8}$ oz., \$1.25; $\frac{1}{4}$ oz., \$2.35.

CAMPANULA—CARPATICA. Dwarf perennial.

Blue. Tr. pkt., 30c; $\frac{1}{8}$ oz., 80c; $\frac{1}{4}$ oz., \$1.45.

• Hybrid Mixture (Cullinmore). Tr. pkt., 60c; $\frac{1}{8}$ oz., \$1.50; $\frac{1}{4}$ oz., \$2.80.

MEDIUM CALYCANTHEMA (Cup-and-Saucer type).

Dark Blue Light Blue Rose White Mixture
Above 5, each: tr. pkt., 25c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.75.

MEDIUM SINGLE (Canterbury Bells).

Dark Blue Light Blue Pink White Mixture
Above 5, each: tr. pkt., 20c; $\frac{1}{4}$ oz., 30c; 1 oz., 90c.

MEDIUM DOUBLE (Canterbury Bells).

Formula Mixed. Tr. pkt., 30c; $\frac{1}{4}$ oz., 80c; 1 oz., \$2.40.

PERSICIFOLIA.

White Blue (Princess Royal) Mixture
Above 3, each: tr. pkt., 40c; $\frac{1}{8}$ oz., \$1.00; $\frac{1}{4}$ oz., \$1.85.

Telham Beauty. Tr. pkt., 40c; $\frac{1}{8}$ oz., \$1.00; $\frac{1}{4}$ oz., \$1.85.

PYRAMIDALIS (Chimney Campanula).

Mixture. Tr. pkt., 40c; $\frac{1}{8}$ oz., \$1.00; $\frac{1}{4}$ oz., \$1.85.

CARNATION—GRENADIN (Hardy Carnation).

King of the Blacks. Darkest red.

Golden Sun • **Pink** • **Red** White • **Mixture**
Above 6, each: tr. pkt., 60c; $\frac{1}{4}$ oz., \$2.00; 1 oz., \$6.50.

CATANANCHE—Coerulea. Everlasting light lavender-blue flowers. Tr. pkt., 25c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.75.

CENTAUREA—Montana. Large Cornflower-blue flowers. Tr. pkt., 25c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.50.

CERASTIUM—• Tomentosum (Snow-in-Summer). White edging and rockery plant. Tr. pkt., 30c; $\frac{1}{4}$ oz., 60c; 1 oz., \$1.80.

CHEIRANTHUS (Wallflower)—• **Golden Bedder.** Large, deep golden yellow. Tr. pkt., 20c; 1 oz., \$1.00.

Orange Queen (Allioni). Free flowering orange. Tr. pkt., 15c; 1 oz., 50c.

CHrysanthemum—• Glory Mixture. Our finest mixture of hardy Mums. Tr. pkt., 80c; $\frac{1}{8}$ oz., \$2.50; $\frac{1}{4}$ oz., \$4.50.
Korean Hybrids. Single and semi-double types in a good color range. Tr. pkt., \$1.00; $\frac{1}{8}$ oz., \$2.50; $\frac{1}{4}$ oz., \$4.50.

CLEMATIS—Paniculata. White-flowered climber.

Recta, Mandschurica. Upright growing, pure white.
Above 2, each: tr. pkt., 75c; $\frac{1}{8}$ oz., \$1.50; $\frac{1}{4}$ oz., \$2.75.

COREOPSIS—• Sunburst (New Gold). A fine semi-double strain. Tr. pkt., 20c; $\frac{1}{4}$ oz., 35c; 1 oz., \$1.10.

Mayfield Giant. Extra large, deep golden yellow. Single. Tr. pkt., 20c; $\frac{1}{4}$ oz., 30c; 1 oz., 90c.

DAISY (Chrysanthemum Maximum).

• G. Marconi. The largest flowered and finest double Shasta Daisy. Originator's seed: tr. pkt., 80c; 5 tr. pkts., \$3.60. Regular stock: tr. pkt., 60c; $\frac{1}{8}$ oz., \$1.65; $\frac{1}{4}$ oz., \$3.00.

Double Fringed (Diener's). A specially reselected strain. Tr. pkt., 60c; $\frac{1}{16}$ oz., \$1.35; $\frac{1}{4}$ oz., \$4.25.

June Marguerite. Tr. pkt., 25c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.50.

• Mayfield Giant. Quite large flowered; end of June. **Alaska.** The standard Shasta Daisy; July.

Conqueror. Giant late white; late July.

Above 3, each: tr. pkt., 20c; $\frac{1}{4}$ oz., 35c; 1 oz., \$1.00.

DELPHINIUM—See page 20.

DIANTHUS—Alwoodi Alpinus Mixed. Single flowers in shades of pink. Tr. pkt., 35c; $\frac{1}{8}$ oz., \$1.00; $\frac{1}{4}$ oz., \$1.75.

Deltoides Erecta. A dwarf Maiden Pink. Bright red. Tr. pkt., 35c; $\frac{1}{8}$ oz., \$1.00; $\frac{1}{4}$ oz., \$1.75.

G Latifolius Atrococcineus. Miniature crimson flowers. Tr. pkt., 35c; $\frac{1}{8}$ oz., \$1.00; $\frac{1}{4}$ oz., \$1.75; 1 oz., \$5.25.

Loveliness. Large, fringed and curled pastel flowers. Quite fragrant. Tr. pkt., 50c; $\frac{1}{8}$ oz., \$1.50.

Winteri. Large single flowers in a rich mixture of pure colors. Long blooming period. Tr. pkt., 60c; $\frac{1}{8}$ oz., \$1.50; $\frac{1}{2}$ oz., \$5.00.

PLUMARIUS (Clove Pink). **Cyclops.** Deep rose with crimson ring. Tr. pkt., 40c; $\frac{1}{4}$ oz., \$1.10.

Double Mixture (Scoticus Florist Strain). Unusual colors. Tr. pkt., 35c; $\frac{1}{8}$ oz., \$1.00; $\frac{1}{4}$ oz., \$1.75; 1 oz., \$5.25.

Single Mixture. Tr. pkt., 20c; $\frac{1}{4}$ oz., 40c; 1 oz., \$1.45.

BARBATUS (Sweet William). Early June flowering.

• Holborn Glory. Striking combination of crimson with white.

• Newport Pink (Pink Beauty). Salmon-rose shade.

Purple Beauty. A rich deep color.

Scarlet Beauty. Well named, intense scarlet-red.

Giant White. Ours is an extra large-flowered strain.

Single Mixture • **Double Mixture**

Above 7, each: tr. pkt., 35c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.60.

• Single Midget Mixed. A very fine rock plant. Tr. pkt., 60c;

$\frac{1}{4}$ oz., \$1.50; 1 oz., \$4.75.

Double Midget Mixed. Tr. pkt., 40c; $\frac{1}{4}$ oz., 90c; 1 oz., \$3.00.

DICENTRA—Spectabilis (Bleeding Heart). Tr. pkt., \$1.00; $\frac{1}{16}$ oz., \$2.00; $\frac{1}{8}$ oz., \$3.75.

Eximia (Plumy Bleeding Heart). Tr. pkt., 40c; $\frac{1}{4}$ oz., \$1.10.

DICTAMNUS—Fraxinella (Gas Plant). Pink with dark veins. Tr. pkt., 30c; $\frac{1}{4}$ oz., 55c; 1 oz., \$1.85.

DIGITALIS—GLOXINOIDES (Foxglove).

Purple Rose White **Giant Shirley Mixture**
Above 4, each: tr. pkt., 25c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.15.

DORONICUM—Caucasicum Magnificent. 18,000 S. 2 ft. Large yellow Gerbera-like flowers with long stems. Keeps well when cut. Tr. pkt., \$1.00; $\frac{1}{8}$ oz., \$2.25.

ECHINOPS—Ritro (Globe Thistle). Blue flower heads $1\frac{1}{2}$ to 2 inches in diameter. Tr. pkt., 40c; $\frac{1}{4}$ oz., \$1.10; 1 oz., \$3.25.

EDELWEISS. See Leontopodium, page 21.

EUPHORBIA—Corollata (Wild Baby's Breath). Small white flowers. Tr. pkt., 40c; $\frac{1}{8}$ oz., \$1.25; $\frac{1}{4}$ oz., \$2.25.

Myrsinutes. Silvery foliage. Tr. pkt., 35c; $\frac{1}{8}$ oz., \$1.00.

Polychroma. Bushy plants with bracts of bright yellow changing to rosy bronze. Tr. pkt., 60c; $\frac{1}{16}$ oz., \$1.35.



Grow Giant Pacific Hybrids for more profits—either for cut flower or for small plant sales.

Florists' Delphinium

(10,000 seeds per oz.)

Delphinium should be a substantial part of almost every grower's program. They're invaluable cut flowers and you'll find a ready demand for plants. The remarkable Giant Pacific Hybrids are "tops" almost everywhere.

For outdoor cut flowers: Sow Sept. 1 thinly, direct to a cold frame—fresh seed and cooler weather then helps sprouting. In late fall remove sash and protect with some loose, coarse material. You'll have fine plants either for field planting or plant sales the next spring.

For greenhouse forcing: Sow Aug. 1, transplant seedlings to cold frame when ready. About Dec. 1 move them to a cold house, spacing 6x8 in. for hybrids; 6x6 in. for Belladonna types. Feb. 1 run them up to 40° nights, gradually increasing to 50°. You'll cut excellent spikes from Mother's Day well into July.

GIANT PACIFIC HYBRIDS Court Series

OUR "6 BEST" GIANT PACIFICS

Galahad

Summer Skies

Black Knight

Blue Bird

King Arthur

Guinevere

- **Black Knight.** Deep midnight violet. The darkest of all.
- **Blue Bird.** The clearest of medium blues; white bees.
- **Blue Jay.** A brilliant true medium blue with dark bee.
- **Cameliard.** A pure lavender with white bee. Very attractive.
- **Galahad.** The finest clear white Delphinium.
- **Guinevere.** Excellent, light pinkish lavender; white bee.
- **King Arthur.** Royal violet with white bee. Exceptional size.
- **Percival.** Large, glistening white flowers with strongly contrasting black bees.
- **Summer Skies.** Light blue with an attractively contrasting white bee.
- **6 Best Mix.** Formula mixture of the "6 Best" varieties.
- **Round Table.** Contains all above plus many new colors.

Above 11, each: tr. pkt., \$1.50; $\frac{1}{8}$ oz., \$2.50; $\frac{1}{4}$ oz., \$4.50; 1 oz., \$15.50.

PINK DELPHINIUM

Astolat. This series is composed principally of pale blush shades with several darker tones including a few raspberry-rose. All have dark bees. $\frac{1}{2}$ tr. pkt., \$1.50; tr. pkt., \$2.25; $\frac{1}{8}$ oz., \$4.50; $\frac{1}{4}$ oz., \$8.00; 1 oz., \$24.00.

GIANT PACIFIC HYBRIDS

Regular Strain

Clear White. A fine clear white, large flowered hybrid.

Blue Shades. Mixture of light, medium and dark blue shades.

Lavender Pastel Shades. Lavender combinations with dark bee.

Mixture. All colors in this fine hybrid type.

Prices above 4, each: tr. pkt., \$1.00; $\frac{1}{8}$ oz., \$2.25; $\frac{1}{4}$ oz., \$4.00; 1 oz., \$13.50.

DELPHINIUM CHINENSIS

(Annual Delphinium)

(20,000 seeds per oz.)

● **Blue Mirror.** Bright navy-blue flowers without spurs. Tr. pkt., 55c; $\frac{1}{4}$ oz., \$1.25; 1 oz., \$3.75.

● **Cambridge Blue.** The standard Belladonna-blue variety. Tr. pkt., 40c; $\frac{1}{4}$ oz., 80c; 1 oz., \$2.75.

White

Dark Blue

Mixture

Prices above 3, each: tr. pkt., 20c; $\frac{1}{4}$ oz., 40c; 1 oz., \$1.35.

OTHER VARIETIES

● **Belladonna Imp.** (Cliveden Beauty.) A carefully reselected strain of this popular light blue. Tr. pkt., 40c; $\frac{1}{4}$ oz., \$1.00; 1 oz., \$3.25; 4 ozs., \$11.00; 1 lb., \$40.00.

Belladonna. Light blue. Tr. pkt., 35c; $\frac{1}{4}$ oz., 70c; 1 oz., \$2.35.

Bellamosum Improved. A reselected strain of this standard deep blue. Tr. pkt., 40c; $\frac{1}{4}$ oz., \$1.00; 1 oz., \$3.25; 4 ozs., \$11.00; 1 lb., \$40.00.

● **Lamartine.** Deep, bright marine-blue with white eye. Tr. pkt., 55c; $\frac{1}{4}$ oz., \$1.50; 1 oz., \$5.00.

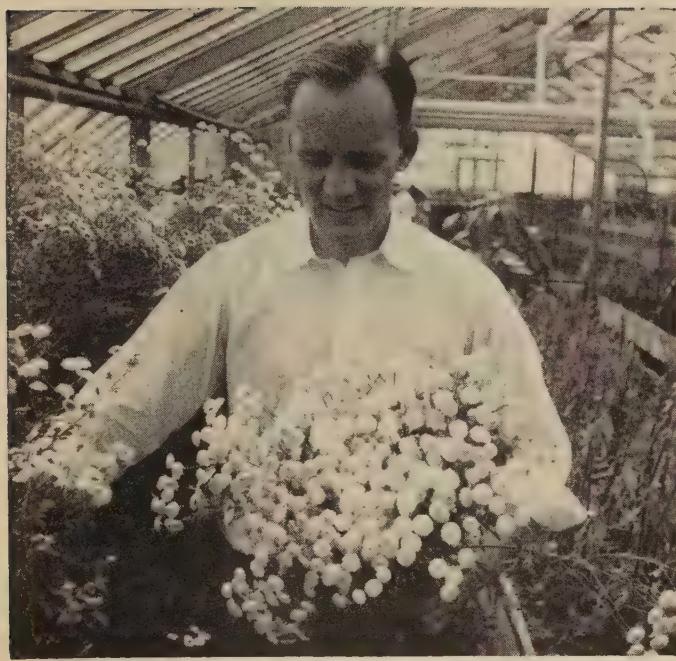
● **Blackmore and Langdon Hybrids.** Shades of blue with contrasting bees. A fine free-flowering hybrid strain. Tr. pkt., 40c; $\frac{1}{4}$ oz., \$1.00; 1 oz., \$3.00; 4 ozs., \$10.00.

Wrexham or Hollyhock Strain. Extra large, tapering spikes. Tr. pkt., 55c; $\frac{1}{4}$ oz., \$1.75; 1 oz., \$6.00.

Gold Medal Hybrids. Tr. pkt., 30c; $\frac{1}{4}$ oz., 55c; 1 oz., \$1.75.

Cardinale. Bright scarlet. Tr. pkt., 40c; $\frac{1}{4}$ oz., 80c; 1 oz., \$2.50.

IMPORTANT! Delphinium seed usually doesn't germinate satisfactorily after a year. For this reason we give double quantity from June 1st until new crop is received, where germination is not up to par—unless we are instructed to hold your order for new crop seed which will be available from late July to September on, depending on harvesting conditions.



FEVERFEW BALL DOUBLE WHITE IMPROVED

FEVERFEW (*Matricaria*)—● **Ball Double White Improved.** 90% double imbricated blooms. Tr. pkt., 50c; $\frac{1}{32}$ oz., \$1.00; $\frac{1}{8}$ oz., \$3.60.

ALL-DOUBLE DWARF. For pots or borders.

● **Golden Nuggets.** Tr. pkt., 35c; $\frac{1}{16}$ oz., 60c; $\frac{1}{4}$ oz., \$2.00.

● **Snow Puffs.** Tr. pkt., 35c; $\frac{1}{16}$ oz., 60c; $\frac{1}{4}$ oz., \$2.00.

GAILLARDIA—**GRANDIFLORA**—● **Dazzler.** The standard fine cutting strain. Golden yellow with maroon center.

● **Monarch Strain.** A very superior mixture.

Above 2, each: tr. pkt., 30c; $\frac{1}{4}$ oz., 55c; 1 oz., \$1.85.

● **Burgundy.** Red. Tr. pkt., 30c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.35.

Portola Hybrids Mixed. Large maroon-red flowers tipped with yellow. Tr. pkt., 30c; $\frac{1}{4}$ oz., 55c; 1 oz., \$1.85.

Goblin. Compact plants; red and yellow bicolored flowers. Tr. pkt., 25c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.35.

Aurea Purpurea. Pure yellow. Tr. pkt., 30c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.00.

GEUM—**Lady Stratheden.** Yellow. **Mrs. Bradshaw.** Red. Above 2, each: tr. pkt., 30c; $\frac{1}{4}$ oz., 55c; 1 oz., \$1.85.

GILIA—**Coronopifolia** (Standing Cypress). Heads of scarlet flowers. Tr. pkt., 30c; $\frac{1}{8}$ oz., 65c; $\frac{1}{4}$ oz., \$1.10.

GYPSOPHILA—● **Pacifica.** Starry pink flowers in Sept. and Oct. Tr. pkt., 30c; $\frac{1}{4}$ oz., 80c; 1 oz., \$2.85.

● **Oldhamiana.** Feathery light pink. Oct. flowering; watch frost dates. Tr. pkt., 25c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.50.

PANICULATA. ● **Double Snow Flake.** About 50% are double flowering. Tr. pkt., 40c; $\frac{1}{4}$ oz., \$1.40; 1 oz., \$4.75.

Single White. Tr. pkt., 20c; 1 oz., 45c; 4 oz., \$1.50.

REPENS Rose. Tr. pkt., 30c; $\frac{1}{4}$ oz., 80c; 1 oz., \$2.50.

HELIANTHEMUM—**Mutabile** (Sun Rose). Attractive dwarf rock plant. Tr. pkt., 25c; $\frac{1}{4}$ oz., 45c; 1 oz., \$1.40.

HELLEBORUS—**Niger** (Christmas Rose). Attractive 2½-in. white flowers; basal foliage. Seed should be frozen before sowing. Tr. pkt., 25c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.50.

HESPERIS—**MATRONALIS** (Sweet Rocket). Sweet scented. **Violet** **White** Above 2, each: tr. pkt., 20c; $\frac{1}{4}$ oz., 35c; 1 oz., \$1.00.

HEUCHERA—**SANGUINEA** (Coral Bells). **Hybrida Mixed** **Splendens.** Crimson. Above 2, each: tr. pkt., 60c; $\frac{1}{16}$ oz., \$1.75; $\frac{1}{8}$ oz., \$3.25.

HIBISCUS—**Mallow Marvels Mixed.** Ours is an extra large-flowered strain. Tr. pkt., 25c; $\frac{1}{4}$ oz., 45c; 1 oz., \$1.35.

HOLLYHOCK—**Imperator Improved.** Choice double crested mixture. Tr. pkt., 30c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.00.

Allegheny Mixed. Single and semi-double types. Tr. pkt., 20c; $\frac{1}{4}$ oz., 30c; 1 oz., 90c.

● **Triumph.** Double-fringed flowers in delicate art shades. Tr. pkt., 30c; $\frac{1}{4}$ oz., 60c; 1 oz., \$1.80.

CHATER'S DOUBLE. The standard double Hollyhock.

Chamois

White

Scarlet

Newport Pink

Deep Rose

Mixture

Sulphur Yellow

Black. Deep maroon.

Lilac Beauty

Above 9, each: tr. pkt., 30c; $\frac{1}{4}$ oz., 55c; 1 oz., \$1.65.

IBERIS (Hardy Candytuft)—**Gibraltarica.** Large-flowered lilac. Tr. pkt., 25c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.50.

Sempervirens. White flowers in late May. Tr. pkt., 55c; $\frac{1}{4}$ oz., \$1.35; 1 oz., \$4.75.

Jucunda. Pink flowers. Tr. pkt., 50c.

INCARVILLEA—**Grandiflora Brevipes.** Brilliant dark rose flowers. Tr. pkt., 60c; $\frac{1}{4}$ oz., \$1.20.

IRIS—**Dichotoma** (Vesper Iris). Mixed colors; fragrant. Tr. pkt., 35c; $\frac{1}{4}$ oz., 70c; 1 oz., \$2.10.

Kaempferi. A wide variety of colors with many being double. Tr. pkt., 40c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.35.

LATHYRUS—**LATIFOLIUS** (Hardy or Everlasting Sweet Pea).

Pink Beauty

White Pearl

Red

Mixture

Above 4, each: tr. pkt., 25c; $\frac{1}{4}$ oz., 35c; 1 oz., \$1.10.

LAVANDULA—● **Munstead Strain.** Freely produces large, sweet-scented flowers. Tr. pkt., 40c; $\frac{1}{4}$ oz., \$1.10.

LEONTOPODIUM—**Alpinum** (Edelweiss). Small, greenish white leaves. Tr. pkt., 60c; $\frac{1}{16}$ oz., \$1.00; $\frac{1}{8}$ oz., \$2.00.

LIATRIS (Gay Feather)—● **Pycnostachya.** Long-spiked purple. **Scariosa, Purple.** Extra large individual flower heads.

Spicata. Purple. Not as long stemmed as Pycnostachya.

Above 3, each: tr. pkt., 35c; $\frac{1}{4}$ oz., \$1.00; 1 oz., \$3.00.

Scariosa White. Pure white. Tr. pkts. only, 60c.

● **September Glory.** Tall growing with purple spikes.

Kobold. Hybrid, non-branching lilac-purple.

Above 2, each: tr. pkt., 60c; $\frac{1}{4}$ oz., \$2.00; 1 oz., \$6.00.

LILIES—● **White Queen** (Canadian hardy strain). Finest white seed propagated Lily. $\frac{1}{2}$ tr. pkt., 75c; tr. pkt., \$1.25; $\frac{1}{8}$ oz., \$2.75; $\frac{1}{4}$ oz., \$5.00.

Candidum (Madonna Lily). Tall pure white. Tr. pkt., \$1.25;

$\frac{1}{8}$ oz., \$2.75; $\frac{1}{4}$ oz., \$5.25; 1 oz., \$16.50.

Formosanum, Giant Flowered. White. Tr. pkt., 60c; $\frac{1}{4}$ oz., \$1.25; 1 oz., \$3.75; 4 oz., \$13.00.

Henryi. Orange. Tr. pkt., 60c; $\frac{1}{4}$ oz., \$1.50; 1 oz., \$5.00.

Regale (Regal Lily). White with yellow throat; pink reverse. Tr. pkt., 25c; $\frac{1}{4}$ oz., 60c; 1 oz., \$1.50; 4 oz., \$5.00.

Rothschildiana. Crimson with yellow bands. Popular corsage flower. Tr. pkt., \$1.00; $\frac{1}{8}$ oz., \$2.75; $\frac{1}{4}$ oz., \$5.00.

Tenuifolium, Coral Lily. Medium-sized flowers of brilliant coral-red. Tr. pkt., 40c; $\frac{1}{4}$ oz., 80c.

Tenuifolium, Golden Gleam. Rich honey-amber; free flowering. Tr. pkt., 60c; $\frac{1}{4}$ oz., \$1.50; 1 oz., \$4.75.

LINUM—**Perenne** (Per. Flax). Blue. Tr. pkt., 20c; 1 oz., 60c.

Flavum. Yellow. Tr. pkt., 30c; $\frac{1}{4}$ oz., 75c.

Collinum. Dwarf growing, light blue. Tr. pkt., 40c; $\frac{1}{4}$ oz., 80c; 1 oz., \$2.50.

LOBELIA—**Cardinalis** (Cardinal Flower). Bright red. Tr. pkt.,

40c; $\frac{1}{4}$ oz., \$1.30; 1 oz., \$3.90.

LUNARIA—**BIENNIS** (Honesty or Money Plant).

White **Mixture**

Above 2, each: tr. pkt., 25c; $\frac{1}{4}$ oz., 40c; 1 oz., \$1.40.

LUPINE—**POLYPHYLLUS** (Hardy Lupine).

● **Russell Strain.** Unusually long flower spikes and attractive colors. Reselected stock (Originator's packets): 20 seeds, 30c; 65 seeds, 65c; 150 seeds, \$1.25; 350 seeds, \$2.50. Regular seed: tr. pkt., 40c; $\frac{1}{4}$ oz., 65c; 1 oz., \$2.10; 4 oz., \$6.50.



**LYCHNIS
CHALCEDONICA**

LUPINE, Continued

MISCELLANEOUS POLYPHYLLUS VARIETIES.

Dark Blue. Tr. pkt., 20c; $\frac{1}{4}$ oz., 40c; 1 oz., \$1.15.

Rose. Tr. pkt., 35c; $\frac{1}{4}$ oz., 65c; 1 oz., \$2.00.

White. Tr. pkt., 20c; $\frac{1}{4}$ oz., 35c; 1 oz., \$1.10.

• **Harkness Regal Mixture.** The standard fine hybrid mixture. Tr. pkt., 20c; $\frac{1}{4}$ oz., 35c; 1 oz., \$1.10.

LYCHNIS—• **Chalcedonica** (Maltese Cross). Scarlet. Tr. pkt., 25c; $\frac{1}{4}$ oz., 45c; 1 oz., \$1.40.

Rose. 5 in. Brilliant rose, for rock gardens. Tr. pkt., 50c.

Forrestii. 15 in. Rose, lilac, white and red. Excellent cut flower and bedding plant. Tr. pkt., 35c; $\frac{1}{4}$ oz., 80c; 1 oz., \$2.40.

MATRICARIA. See Feverfew, page 21.

MYOSOTIS (Forget-me-not)—• **Blue Bird** (Oblongata). Standard blue for spring greenhouse flowering. Tr. pkt., 40c; $\frac{1}{4}$ oz., 90c; 1 oz., \$3.25.

Palustris Semperflorens. Flowers from early spring until autumn. Tr. pkt., 40c; $\frac{1}{4}$ oz., 90c; 1 oz., \$3.25.

VICTORIA. A dwarf compact strain. 6 to 8 in.

Dark Blue **Rose** **White** **Dwarf Mixed**
Above 4, each: tr. pkt., 40c; $\frac{1}{8}$ oz., 90c; $\frac{1}{4}$ oz., \$1.65; 1 oz., \$4.90.

ALPESTRIS. Blue Eyes. Early flowering bright blue with white eyes. Tr. pkt., 60c; $\frac{1}{4}$ oz., \$1.50; 1 oz., \$4.75.

• **Royal Blue** (Indigo Blue). Deep rich blue. Tr. pkt., 40c; $\frac{1}{4}$ oz., 85c; 1 oz., \$3.00.

NEPETA—**Mussini** (June-flowering Catnip). Aromatic foliage and flowers. Tr. pkt., 30c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.25.

OENOTHERA—**Youngi** (Sundrop). Large yellow blooms. Tr. pkt., 25c; $\frac{1}{4}$ oz., 65c; 1 oz., \$2.00.

Missouriensis. (New.) 12 in. Large-flowered yellow. Tr. pkt., 30c; $\frac{1}{4}$ oz., \$1.20.

PENTSTEMON—**Avalon Hybrids.** 3 ft. Spikes of fine large flowers in an extremely wide and unusual range of colors. The result of crossing 2 distinct species. Tr. pkt., 40c; $\frac{1}{8}$ oz., 80c; $\frac{1}{4}$ oz., \$1.50.

PHLOX—**Hybrid Mixture** (Decussata). Large brilliantly colored types. Tr. pkt., 40c; $\frac{1}{4}$ oz., 80c; 1 oz., \$2.50.

Beltsville Beauty. A greatly improved perennial Phlox. Large flowered, and a wide assortment of colors. Tr. pkt., 75c.

PHYSALIS—**Francheti** (Chinese Lantern Plant). Giant orange-scarlet pods. Tr. pkt., 30c; $\frac{1}{4}$ oz., 80c; 1 oz., \$2.50.

PHYSOSTEGIA—**Virginica** (False Dragonhead). Rosy lilac. Tr. pkt., 60c; $\frac{1}{4}$ oz., \$1.50; 1 oz., \$5.00.

PLATYCODON—**GRANDIFLORUM** (Balloon Flower).

Blue. A clear, deep violet-blue. **White** **Mixed**
Above 3, each: tr. pkt., 40c; $\frac{1}{8}$ oz., 90c; $\frac{1}{4}$ oz., \$1.60.

POPPY—**ORIENTALE** (Oriental Poppy). **Beauty of Livermere.** Dark oxblood-red. Tr. pkt., 35c; $\frac{1}{4}$ oz., \$1.25.

Brilliant. Fiery red. Tr. pkt., 35c; $\frac{1}{8}$ oz., \$1.00; $\frac{1}{4}$ oz., \$1.75.

Princess Victoria Louise. The standard light orange. Tr. pkt., 35c; $\frac{1}{4}$ oz., \$1.00; 1 oz., \$3.75.

Salmon Shades. Tr. pkt., 40c; $\frac{1}{8}$ oz., \$1.10; $\frac{1}{4}$ oz., \$1.85.

Mixture. Tr. pkt., 40c; $\frac{1}{4}$ oz., \$1.25; 1 oz., \$4.25.

PRIMULA—**VERIS.** • **Collosea.** Unusual colors. Tr. pkt., \$1.25; $\frac{1}{8}$ oz., \$3.00; $\frac{1}{4}$ oz., \$5.25; 1 oz., \$17.00.

• **Giant Munstead Strain.** Shades of yellow. Tr. pkt., \$1.25; $\frac{1}{8}$ oz., \$3.00; $\frac{1}{4}$ oz., \$5.25; 1 oz., \$17.00.

• **Polyanthus Mixture.** Tr. pkt., \$1.00; $\frac{1}{8}$ oz., \$2.25; $\frac{1}{4}$ oz., \$4.25; 1 oz., \$12.50.

Giant Monarch Strain. A fine large-flowered mixture. Tr. pkt., \$1.25; $\frac{1}{8}$ oz., \$3.00; $\frac{1}{4}$ oz., \$5.25; 1 oz., \$17.00.

MISCELLANEOUS HARDY PRIMULAS.

Giant Crimson **Giant Yellow** **Giant White**
Above 3, each: tr. pkt., 80c; $\frac{1}{16}$ oz., \$1.85; $\frac{1}{8}$ oz., \$3.25.

Blue Flowered. Tr. pkt., \$1.00; $\frac{1}{32}$ oz., \$2.75; $\frac{1}{16}$ oz., \$5.25.

Vulgaris (True Yellow English Primrose). Tr. pkt., 60c; $\frac{1}{4}$ oz., \$1.75; 1 oz., \$6.50.

Cashmeriana. Ball-shaped heads of rich purple flowers with yellow centers. Tr. pkt., \$1.00; $\frac{1}{16}$ oz., \$3.75; $\frac{1}{4}$ oz., \$12.50.

Japonica. Crimson, rose and pink flowers borne in whorls on 6- to 9-inch stems. Tr. pkt., 40c; $\frac{1}{8}$ oz., \$1.00.

PYRETHRUM—**ROSEUM** (Painted Daisy).

Atrosanguineum. A popular dark crimson strain.

Rose. Single pink flowers.

Robinson's Dark Crimson. Giant flowered, dark red.

• **Robinson's Hybrids.** Large single mixture.

• **Semi-Double Mixture.** An excellent strain.

Above 5, each: tr. pkt., 60c; $\frac{1}{4}$ oz., \$1.50; 1 oz., \$4.75.

• **Double Mixture.** The finest double Pyrethrum. Tr. pkt., 60c; $\frac{1}{8}$ oz., \$1.50; $\frac{1}{4}$ oz., \$2.75; 1 oz., \$8.25.

Parthenifolium Aureum (Golden Feather). Dwarf; yellow-green foliage. Tr. pkt., 20c; $\frac{1}{4}$ oz., 35c; 1 oz., \$1.00.

RUDBECKIA—**Purpurea.** (Echinacea). Reddish purple. Tr. pkt., 35c; $\frac{1}{4}$ oz., \$1.00; 1 oz., \$3.50.

SALVIA—**Patens.** Navy blue. Tr. pkt., 60c; $\frac{1}{4}$ oz., \$1.50; 1 oz., \$4.75.

SAPONARIA—**Ocymoides.** Hardy rock plant. Rose-pink flowers. Tr. pkt., 30c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.25.

**SCABIOSA
HOUSE HYBRIDS**





VIOLAS

Lutea Splendens

Blue Perfection

Chantreyland

White Perfection

Jersey Gem

These miniature Pansies are extra free flowering, and perfectly hardy.

SCABIOSA—*CAUCASICA*. **Goldingensis**. Large flowered, fine deep lavender. Tr. pkt., 40c; $\frac{1}{4}$ oz., \$1.10; 1 oz., \$3.75.
Perfecta. Improved large flowered form of this lilac-lavender strain. Tr. pkt., 35c; $\frac{1}{4}$ oz., 80c; 1 oz., \$2.60.
● **House Hybrids**. Large flowers ranging from white to deep blue. Tr. pkt., 40c; $\frac{1}{4}$ oz., \$1.10; 1 oz., \$3.75.

STATICE—*Caspia*. Seedlings flower second season. Lilac. Tr. pkt., 30c; $\frac{1}{4}$ oz., 80c; 1 oz., \$2.75.
Dumosa. Dense clumps of silvery gray flowers. Tr. pkt., 30c; $\frac{1}{4}$ oz., 80c; 1 oz., \$2.75.
● **Latifolia** (Sea Lavender). Standard blue perennial Statice. Tr. pkt., 30c; $\frac{1}{4}$ oz., 65c; 1 oz., \$2.00.
Perezi. Flowers in large lavender heads first year from seed. Tr. pkt., 30c; $\frac{1}{4}$ oz., 65c; 1 oz., \$2.00.

STOKESIA—*Cyanea* (Stokes' Aster). Large blue flowers. Tr. pkt., 35c; $\frac{1}{4}$ oz., \$1.00.
THALICTRUM—*Dipterocarpum* (Meadow Rue). Rosy purple flowers. Tr. pkt., 30c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.35.

THERMOPSIS—*Caroliniana*. Long panicles of yellow pea-shaped flowers. Tr. pkt., 30c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.35.
TRITOMA (Red Hot Poker). ● **Pfizer's Hybrids**. Brilliant red.
Mirabilis Hybrids. Yellow and orange shades.
Above 2, each: tr. pkt., 30c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.00.

TROLLIUS—Soak seed in hot water 30 minutes before sowing.
Lebedouri, Orange (Globeflower). Late flowering. Tr. pkt., 60c; $\frac{1}{16}$ oz., \$1.25; $\frac{1}{8}$ oz., \$2.25.
Europaeus (Golden Ball). Tr. pkt., 40c; $\frac{1}{8}$ oz., \$1.10; $\frac{1}{4}$ oz., \$2.00.
Hybrids Mixed (New). Beautiful variations in both form and shades. Tr. pkt., 40c; $\frac{1}{2}$ oz., \$1.50; $\frac{1}{4}$ oz., \$2.70.

VERONICA—*Spicata, Dwarf Mixed* (Speedwell). Easily grown; brightly colored. Tr. pkt., 35c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.25.

VIOLA—*CORNUTA*. **Apricot**. Prefer Chantreyland. Tr. pkt., 55c; $\frac{1}{8}$ oz., \$1.15; $\frac{1}{4}$ oz., \$2.10; 1 oz., \$6.50.
Arkwright Ruby. Maroon-scarlet with dark center. Tr. pkt., 60c; $\frac{1}{8}$ oz., \$1.60; $\frac{1}{4}$ oz., \$2.90; 1 oz., \$9.00.
● **Blue Perfection**. Large flowered clear medium blue. Tr. pkt., 60c; $\frac{1}{8}$ oz., \$1.20; $\frac{1}{4}$ oz., \$2.25; 1 oz., \$6.50.
● **Chantreyland**. Extra large flowered true apricot. Tr. pkt., 60c; $\frac{1}{8}$ oz., \$1.15; $\frac{1}{4}$ oz., \$2.20; 1 oz., \$6.50.
Firmament. Free blooming, clear sky-blue. Tr. pkt., 60c; $\frac{1}{16}$ oz., \$1.15; $\frac{1}{8}$ oz., \$2.20.
Jersey Gem. Deep orchid. Tr. pkt., 60c; $\frac{1}{16}$ oz., \$1.15; $\frac{1}{8}$ oz., \$2.25.
King Henry. Rich violet-blue with lavender center and small yellow eye. Tr. pkt., 60c; $\frac{1}{8}$ oz., \$1.15; $\frac{1}{4}$ oz., \$2.20; 1 oz., \$6.50.
● **Lutea Splendens**. Clear golden yellow. Tr. pkt., 60c; $\frac{1}{4}$ oz., \$1.60; 1 oz., \$5.25.
Papilio. Blue and white combinations. Extra dwarf and free-flowering. Tr. pkt., 40c; $\frac{1}{4}$ oz., \$1.25; 1 oz., \$4.25.
Puck. Yellow and purple. Tr. pkt., 40c; $\frac{1}{4}$ oz., \$1.35; 1 oz., \$4.25.
● **White Perfection**. Small pure white. Tr. pkt., 40c; $\frac{1}{4}$ oz., \$1.35; 1 oz., \$4.25.
● **Large-Flowered Mixture**. Complete mixture of all large flowered varieties. Tr. pkt., 40c; $\frac{1}{4}$ oz., \$1.35; 1 oz., \$4.25.

"JUMP-UPS"

Black Imp. Tr. pkt., 60c; $\frac{1}{4}$ oz., \$1.60; 1 oz., \$5.50.

● **Blue Elf**. (Improved Johnny Jump-Up.) Three-colored blooms. Tr. pkt., 60c; $\frac{1}{8}$ oz., \$1.35; $\frac{1}{4}$ oz., \$2.50.

● **Helen Mount**. A combination of violet, lavender and canary-yellow. Tr. pkt., 60c; $\frac{1}{8}$ oz., \$1.35; $\frac{1}{4}$ oz., \$2.50.

ODORATA. The popular fragrant "English Violet." **Semper-florens**. Deep blue. Tr. pkt., 40c; $\frac{1}{4}$ oz., \$1.40.

YUCCA—**Hardy Varieties Mixed**. Striking plants of exotic appearance. Tr. pkt., 30c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.25.



PRIMULA VERIS COLOSSEA

Makes a wonderful hardy bedding show, and is an excellent pot plant when forced under glass.

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1125 BULBS FOR \$54.00

Order now and be sure of getting your bulbs early next September—when your customers have the planting urge.
Colored posters to help your sales come with each collection.

Each unit contains:

- 25 Hyacinths, Blue.
- 25 Hyacinths, Pink.
- 25 Hyacinths, White.
- 125 Tulips, Wm. Pitt. Brilliant carmine.
- 125 Tulips, Philip Snowden. Deep rose.
- 125 Tulips, All Bright. Deep red.
- 125 Tulips, Wm. Copeland. Lavender.
- 125 Tulips, Carrara. Pure white.
- 125 Tulips, Golden Harvest. Lemon-yellow.
- 125 Tulips, Rhineland. Crimson, edged yellow.
- 25 Tulips, Red Emperor. Fiery scarlet.
- 25 Tulips, Blue Parrot. Dark lavender-blue.
- 25 Tulips, Fantasy (Parrot). Deep salmon, blotted green.
- 100 Daffodils, King Alfred. Golden yellow.

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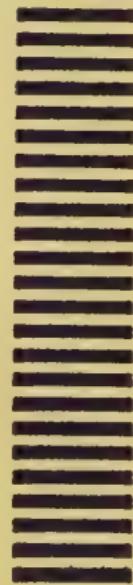
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New, cloth bound, 226 pages. Completely revised, freely illustrated. Covers culture of Snaps (including Single Stem), full details on off season Mum growing, culture of Stocks under glass, Petunias, Asters—and over 150 more florist Crops. Price \$1.50.

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Vic Ball, editor

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"Grower Talks" will also help you keep posted on new developments in varieties, culture of such important crops as Snaps, Stocks, Petunias, Mums (including off season cut and pot Mums)—all tuned to the practical grower. Also travel notes. Freely illustrated. Monthly, 1 year 90c. 3 years \$2.50.

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PLEASE: We invite constructive criticism. If you have received stock from us that does not suit you just pencil it down here. Or if certain varieties do particularly well in your section it is equally interesting of course. Let's have a few words from you.

Ball Croft Lilies

For
Easter

Gro. J. Ball
INC.
WEST CHICAGO,
ILLINOIS, U. S. A.



April 5
1953

Gro. J. Ball
INC.
WEST CHICAGO,
ILLINOIS, U. S. A.

Ball Crofts are noted for their clean, disease-free growth.

Use only disease-free bulbs for your Easter pot plants. Ball Crofts are state inspected, as well as being inspected by our specialists throughout the growing season. We supervise the harvesting, grading, packing and shipping to assure you of the best quality bulbs available.

We will ship at the proper time for planting in a 60° house. F.O.B. our cold storage plant nearest you. Fill in the number of cases you want, your name and address, and date you want us to ship your bulbs, and return this order to us at once.

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____ 8/9 in., 200 bulbs per case

CASES WANTED

____ 9/10 in., 150 bulbs per case

____ 10/up, 100 bulbs per case

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GEO. J. BALL, INC.,

**WEST CHICAGO
ILLINOIS**

Ball-Grown Small Plants



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(Fibrous-Rooted)

2 1/4-in. Available September to June

Adeline. Free flowering bright pink; dwarf.
Ball Deep Rose. Deep rosy red during winter and spring, changing to luminous pink during warm weather. Dwarf.

Lumincsa Compacta. Dwarf. Popular scarlet-red.
Ball Red. Dwarf. Medium flowers of bright scarlet.
Indian Maid. Intermediate. Bronze-leaved scarlet.
Carmen. Intermediate. Bright rose-pink flowers, bronze leaves.

Snowbank. Dwarf. Large, glistening white flowers.
Assorted.

Price: \$12.00 per 100; \$100.00 per 1000.
 250 at 1000 rate.

Minimum order 100; 25 of a variety.

SNAPS

2 1/4-in. Available Until March

PINK and ROSE

Rosanna (Ball Hyb. No. 9). Deep rose.
Christmas Cheer. HYBRID. Rose-pink. (Available Dec. 1).
Dorcus Jane. HYBRID. Silvery rose-pink.
Christina. HYBRID. Medium light pink.
Peggy Schumann. Rose-pink. (Available after Nov. 1).
Rosy Dawn (New Ball Hyb. No. 41). Solid, heavy spikes of fairly deep rose.
Pink Ice (New Ball Hyb. No. 31). Bright medium rose with nearly white lips.
Hercules (New Ball Hyb. No. 21). Medium pink.

RED and LAVENDER

Navajo (Ball Hyb. No. 8). Our best red.
Lavender Lady (New Ball Hyb. No. 71). Deep rosy lavender.

WHITE

Snowman (Ball Hyb. No. 5). Pure white.
Margaret. Clean ivory-white; very productive.

YELLOW

Golden Spike (Ball Hyb. No. 1). Golden yellow.
Patricia. HYBRID. Medium yellow.

BRONZE

Barbara. HYBRID. Large flowered bronze with pink throat.
PRICES above Snapdragon plants:
 \$8.00 per 100; \$65.00 per 1000. 250 at 1000 rate.
 Minimum order 100; 25 of a variety.

ROSES for Pot Forcing

Delivery: December—January—February F.O.B. West Chicago

STANDARD VARIETIES

Ball Pink. Light pink; early.
Triomphe Orleanais.
 Early red.
Garnette. Early garnet-red.

	Per 10	Per Case 120	Per Case 220
XXX	\$6.90	\$72.50	\$132.50
XX	\$5.90	\$72.50	
X	Per 10 \$3.90	Per Case 250 \$72.50	

Sold in units of 10 plants, only.

PATENTED VARIETIES XXX

	Per 10	20-100	
Crimson Rosette	\$9.00	\$0.75	
Pink Rosette	9.00	.75	
Summer Snow	6.90		

XXX ROSE COLLECTION No. 1

60	Triomphe Orleanais
20	Garnette
20	Gloria Mundi
20	Magna Charta
120	Plants (Collection) \$72.50

XXX ROSE COLLECTION No. 2

40	Triomphe Orleanais
20	Ball Pink
20	Crimson Rosette (Pat.)
20	Pink Rosette (Pat.)
20	Margo Koster
120	Plants (Collection) \$83.50



KURUMES

Coral Bells. Dainty coral-pink; semi-double.

Hexe. Deep crimson; semi-double dwarf.

Hinodegiri. Carmine-red. Hardy.

Orange Coral Bells. Soft coral-red.

Rival. Double salmon-rose.

Rose Pericat. Hose-in-hose type. Light pink.

Salmon Beauty. Salmon-pink. Hose-in-hose type.

Marjorie Ann. Pink; very nice.

Snow. Pure white hose-in-hose type.

Sweetheart Supreme. Fine pink. Resembles Sweetheart Rose when opening.

Each

4 to 6 in. \$0.65
6 to 8 in.85

Each

8 to 10 in. \$1.00
10 to 12 in. 1.50

Each

6 to 8 in. \$1.65
8 to 10 in. 2.00

Each

\$2.50
3.00

FOUR AZALEA COLLECTIONS

COLLECTION No. 1

50 plants, 5 each of the following 10 varieties:

Coral Bells. Dainty coral pink; semi-double.

Hexe. Deep crimson; semi-double dwarf.

Hinodegiri. Carmine-red. Hardy.

Orange Coral Bells. Soft coral-red.

Rival. Double salmon-rose.

Rose Pericat. Hose-in-hose type. Light pink.

Salmon Beauty. Salmon-pink. Hose-in-hose type.

Marjorie Ann. Pink; very nice.

Snow. Pure white hose-in-hose type.

Sweetheart Supreme. Fine pink.

50 Kurume Azaleas, size 6-8 (Collection) \$42.50

COLLECTION No. 2

25 plants, 5 each of the following 5 varieties:

Coral Bells. Dainty coral-pink; semi-double.

Hexe. Deep crimson; semi-double dwarf.

Snow. Pure white hose-in-hose-type.

Sweetheart Supreme. Fine pink.

Rose Pericat. Hose-in-hose type. Light pink.

25 Kurume Azaleas, size 8-10 (Collection) \$25.00

COLLECTION No. 3

10 Coral Bells (6-8). Dainty coral pink; semi-double.

5 Snow (6-8). Pure white hose-in-hose type.

5 Vervaeneana (8-10). Double, large rosy salmon.

10 Mme. Petrick (8-10). Christmas flowering rose.

10 Triomphe (8-10). Double red with purple sheen.

10 Jean Haerens (8-10). Double, large dark rose.

50 Grafted Indica and Kurume Azaleas (Collection) \$82.75

COLLECTION No. 4

10 Albert & Elizabeth. Double white with pink border.

5 Eric Schame. Early salmon-rose with blush.

10 Jean Haerens. Double, large dark rose.

10 Mme. Petrick. Christmas flowering rose.

5 Perle de Swynarde. Best double white.

5 Vervaeneana. Double, large rosy salmon.

5 Violacea. Deep purplish violet.

50 Grafted Indicas size 8-10 (Collection) \$100.00

All Collections F.O.B. West Chicago. Order by collection number.

Grog Ball
INC.
WEST CHICAGO,
ILLINOIS, U. S. A.